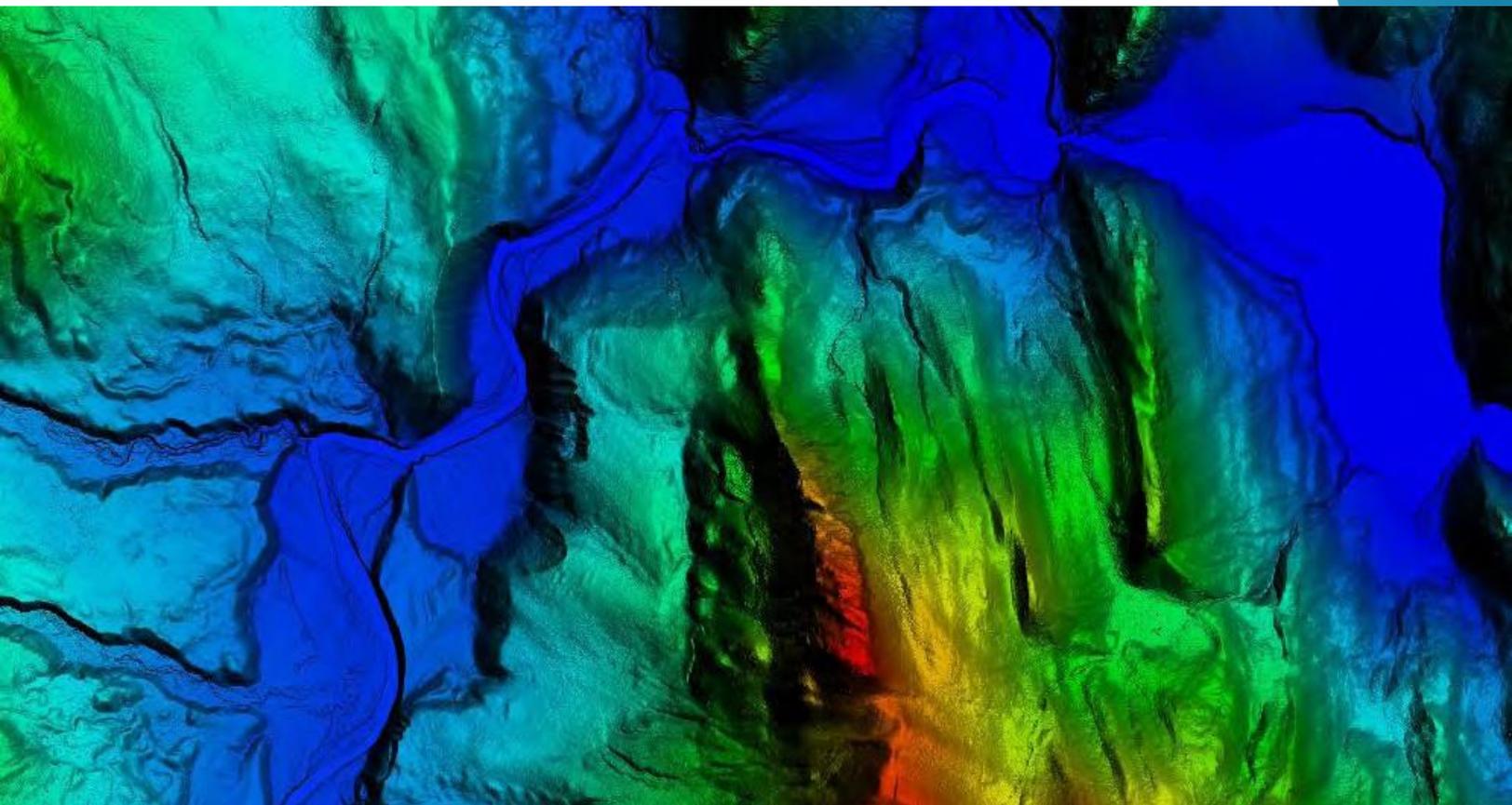




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TETON COUNTY, MONTANA
LIDAR TECHNICAL DATA REPORT

2020

Submitted: October 2, 2020

Prepared for:



The Montana Department of
Natural Resources
& Conservation

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Contents

1. Summary / Scope.....	1
1.1. Summary.....	1
2. Acquisition	4
2.1. Airborne Lidar Survey	4
3. Ground Survey	6
3.1. Base Stations	6
3.2 Ground Survey Points (GSPs).....	7
3.3 Land Cover Class	8
4. Processing Summary	11
4.1. LiDAR Processing	11
4.2. LAS Classification Scheme	12
4.3 Classified LAS Processing	12
4.4. Hydro-Flattened Breakline Processing.....	13
5. Lidar Accuracy Assessments	15
5.1. Calibration Control Point Testing.....	15
5.2. Point Cloud Testing	15
5.3. Digital Elevation Model (DEM) Testing	15
Certifications	17
Project Report Appendices	xviii
Appendix A.....	xix

List of Figures

Figure 1. Project Boundary	3
Figure 2. Riegl VQ1560i LiDAR Sensor	4
Figure 3. Ground Survey Locations.....	10

List of Tables

Table 1. Lidar Specifications and Survey Settings	5
Table 2. Monument Positions for the Montana Teton County Acquisition.....	6
Table 3. Federal Geographic Data Committee Monument Rating for Network Accuracy	7
Table 4. QSI Ground Survey Equipment Identification	8
Table 5. Land Cover Types and Descriptions	8
Table 6. LAS Classifications.....	12

List of Appendices

Appendix A: Focus on Accuracy Report

1. Summary / Scope

1.1. Summary

In March 2020, Quantum Spatial was contracted by Montana Department of Natural Resources (MTDNRC) to collect Light Detection and Ranging (Lidar) data in the summer of 2020 for Teton County in Montana. Data was collected to aid MTDNRC in assessing the topographic and geophysical properties of the study area to support MTDNRC's objective of obtaining new, high resolution Lidar-derived topographic data. This Lidar-derived data will aid in floodplain mapping being carried out by MTDNRC and the Federal Emergency Management Agency (FEMA).

This report accompanies the delivered Lidar data and documents contract specifications, data acquisition procedures, processing methods, and analysis of the final dataset including Lidar accuracy and density.

The project boundary covers 973 square miles for QL1 data and 532 square miles for QL2 data over Teton County, Montana. A buffer of 100 meters was created to meet task order specifications. Project extents are shown in Figure 1.

Teton County, Montana Lidar Products Projected Coordinate System: State Plane Montana FIPS 2500 Horizontal Datum: NAD 1983 (2011) Vertical Datum: NAVD88 (GEOID 12B) Units: Meters	
Lidar Point Cloud	Classified Point Cloud in LAS 1.4 format
Rasters	1-Meter GeoTiffs <ul style="list-style-type: none"> • Hydroflattened Bare Earth Model (DEM) • Highest Hit Digital Surface Model (DSM) • Density Rasters 0.5-Meter GeoTiffs <ul style="list-style-type: none"> • Intensity Images
Vectors	Shapefiles (*.shp) <ul style="list-style-type: none"> • Buffered Boundary • Tile Index • FEMA Spatial Files • Acquisition Shapes • 1-foot Contours • Building Footprint Polygons ESRI Geodatabase and ASCII TXT file <ul style="list-style-type: none"> • Continuous Hydro-flattened Breaklines
Metadata	XML Files (*.xml) <ul style="list-style-type: none"> • Breaklines • Classified Point Cloud • DEM • Intensity Imagery

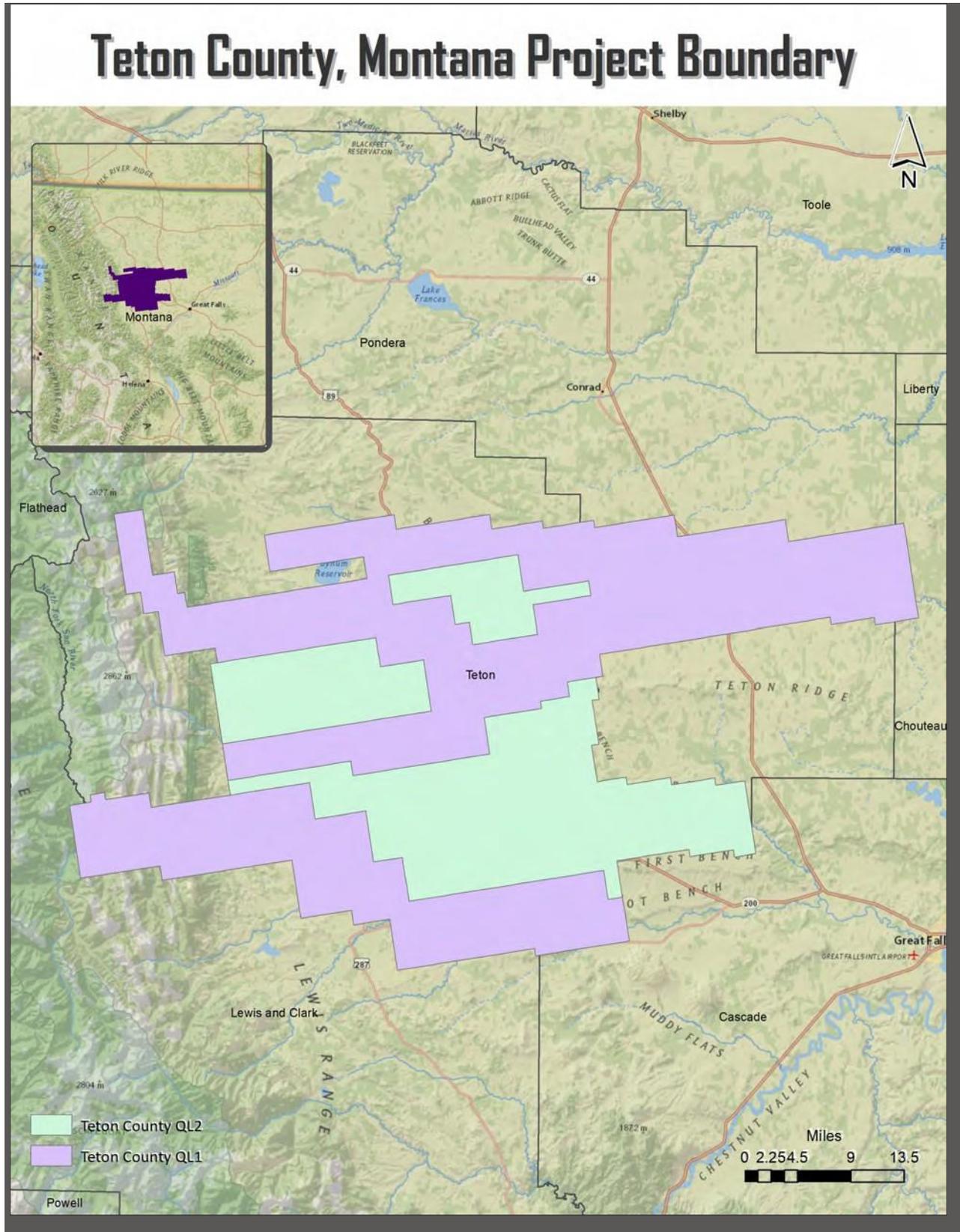


Figure 1. Project Boundary

2. Acquisition



2.1. Airborne Lidar Survey

The Lidar survey was accomplished using a Riegl VQ-1560i laser system (Figure 2) mounted in a Cessna Caravan to yield an average pulse density of ≤ 2 pulses/m² for the QL2 area and an average pulse density of ≤ 8 pulses/m² for the QL1 area. Table 1 summarizes the settings used over the Teton County project area. The Riegl laser system can record unlimited range measurements (returns) per pulse, however only 15 returns can be stored due to las 1.4 limitations. It is not uncommon for some types of surfaces (e.g., dense vegetation or water) to return fewer pulses to the Lidar sensor than the laser originally emitted. The discrepancy between first return and overall delivered density will vary depending on terrain, land cover, and the prevalence of water bodies. All discernible laser returns were processed for the output dataset. Lidar specifications and survey settings are shown in Table 1 on the following page.

Figure 2. Riegl VQ1560i LiDAR Sensor



Table 1. Lidar Specifications and Survey Settings

Settings and Specifications		
Acquisition Dates	04/24/2020 - 05/28/2020	04/21/2020 - 07/05/2020
Aircraft Used	Cessna Caravan	Cessna Caravan
Sensor	Riegl	Riegl
Laser	VQ1560i	VQ1560i
Maximum Returns	15	15
Resolution/Density	Average 2 pulses/m ²	Average 8 pulses/m ²
Nominal Pulse Spacing	0.7 m	0.35 m
Survey Altitude (AGL)	2305 m	1825 m
Survey Speed	145 knots	145 knots
Field of View	58.5°	58.5°
Mirror Scan Rate	2 x 71.9 lines per second	2 x 117 lines per second
Target Pulse Rate	2 x 700 kHz	2 x 700 kHz
Pulse Length	3 ns	3 ns
Laser Pulse Footprint Diameter	0.18 mrad	0.18 mrad
Central Wavelength	1064 nm	1064 nm
Pulse Mode	Multiple-Time-Around MTA	Multiple-Time-Around MTA
Beam Divergence	41 cm	32.8 cm
Swath Width	2582 m	2045 m
Swath Overlap	30%	60%
Intensity	16-bit	16-bit
Accuracy	RMSEZ (Non-Vegetated) ≤ 30 cm	RMSEZ (Non-Vegetated) ≤ 30 cm
	NVA (95% Confidence Level) ≤ 29.4 cm	NVA (95% Confidence Level) ≤ 29.4 cm
	VVA (95th Percentile) ≤ 45 cm	VVA (95th Percentile) ≤ 45 cm

3. Ground Survey

Ground control surveys, including monumentation and ground survey points (GSPs) were conducted to support the airborne acquisition. Ground control data were used to geospatially correct the aircraft positional coordinate data and to perform quality assurance checks on final lidar data products.

3.1. Base Stations

Base stations were utilized for collection of ground survey points using real time kinematic (RTK), post processed kinematic (PPK), and fast static (FS) survey techniques.

Base Station locations were selected with consideration for satellite visibility, field crew safety, and optimal location for GSP coverage. Quantum Spatial utilized one existing monument and established five new monuments as well as occupied three permanent active CORS station for the Montana Teton County lidar project (Table 2). New monumentation was set using 5/8" x 30" rebar topped with stamped 2 1/2 inch aluminum caps. Quantum Spatial professional land surveyor, Steven J. Hyde (MTPLS# 60192), oversaw and certified the establishment and occupation of all monuments.

Table 2. Monument Positions for the Montana Teton County Acquisition
Coordinates are on the NAD83 (2011) datum, epoch 2010.00

Monument ID	Type	Latitude	Longitude	Ellipsoid (meters)
MLS_GPT_2000	Monument	47° 32' 32.72920"	-111° 42' 12.49705"	1029.751
MTDNRC_TETON_01	Monument	47° 31' 42.90429"	-112° 21' 56.46814"	1262.336
MTDNRC_TETON_02	Monument	47° 51' 38.44288"	-112° 15' 34.70868"	1202.974
MTDNRC_TETON_03	Monument	47° 55' 52.13676"	-112° 48' 12.12843"	1858.854
MTDNRC_TETON_04	Monument	47° 36' 54.60606"	-112° 38' 26.14307"	1328.079
MTDNRC_TETON_05	Monument	47° 49' 36.48861"	-112° 35' 18.66623"	1446.431
MTLO	CORS	47° 57' 02.41108"	-110° 30' 17.96943"	835.249
MTPJ	CORS	48° 04' 14.81139"	-112° 20' 09.16614"	1310.41
P049	CORS	47° 20' 59.85058"	-110° 54' 22.38298"	1186.644

Quantum Spatial utilized static Global Navigation Satellite System (GNSS) data collected at 1 Hz recording frequency for each base station. During post-processing, the static GNSS data were triangulated with nearby Continuously Operating Reference Stations (CORS) using the Online Positioning User Service (OPUS) for precise positioning. Multiple independent sessions over the same monument were processed to confirm antenna height measurements and to refine position accuracy.

Monuments were established according to the national standard for geodetic control networks, as specified in the Federal Geographic Data Committee (FGDC) Geospatial Positioning Accuracy Standards for geodetic networks. This standard provides guidelines for classification of monument quality at the 95% confidence interval as a basis for comparing the quality of one control network to another. The monument rating for this project is shown in Table 3.

Table 3. Federal Geographic Data Committee Monument Rating for Network Accuracy

Direction	Rating
1.96 * St Dev _{NE} :	0.020 m
1.96 * St Dev _Z :	0.020 m

For the Montana Teton County lidar project, the monument coordinates contributed no more than 2.8 cm of positional error to the geolocation of the final ground survey points and lidar, with 95% confidence.

3.2 Ground Survey Points (GSPs)

Ground survey points were collected using real time kinematic (RTK), post-processed kinematic (PPK), and fast-static (FS) survey techniques. For RTK surveys, a roving receiver receives corrections from a nearby base station or Real-Time Network (RTN) via radio or cellular network, enabling rapid collection of points with relative errors less than 1.5 cm horizontal and 2.0 cm vertical. PPK and FS surveys compute these corrections during post-processing to achieve comparable accuracy. RTK and PPK surveys record data while stationary for at least five seconds, calculating the position using at least three one-second epochs. FS surveys record observations for up to fifteen minutes on each GSP in order to support longer baselines. All GSP measurements were made during periods with a Position Dilution of Precision (PDOP) of ≤ 3.0 with at least six satellites in view of the stationary and roving receivers. See Table 11 for Trimble unit specifications.

GSPs were collected in areas where good satellite visibility was achieved on paved roads and other hard surfaces such as gravel or packed dirt roads. GSP measurements were not taken on highly reflective surfaces such as center line stripes or lane markings on roads due to the increased noise seen in the laser returns over these surfaces. GSPs were collected within as many flight lines as possible; however, the distribution of GSPs depended on ground access constraints and monument locations and may not be equitably distributed throughout the study area (Figure 3).

Table 4. QSI Ground Survey Equipment Identification

Receiver Model	Antenna	OPUS Antenna ID	Use
Trimble R7 GNSS	Zephyr GNSS Geodetic Model 2 RoHS	TRM57971.00	Static
Trimble R8	Integrated Antenna	TRM_R8_GNSS	Rover
Trimble R10	Integrated Antenna	TRMR10	Rover

3.3 Land Cover Class

In addition to ground survey points, land cover class check points were collected throughout the study area to evaluate vertical accuracy. Vertical accuracy statistics were calculated for all land cover types to assess confidence in the LiDAR derived ground models across land cover classes (Table 5, see Focus on Accuracy, Appendix A).

Table 5. Land Cover Types and Descriptions

Land Cover Type	Land Cover Code	Example	Description	Accuracy Assessment Type
Shrub	SH		Areas of dense low-lying shrubbery	VVA

Land Cover Type	Land Cover Code	Example	Description	Accuracy Assessment Type
Tall Grass	TG	 <p>DIRECTION N (T) 47.68302°N ACCURACY 5 m DATUM WGS84 112.04551°W</p> <p>TG001 TALL GRASS 2020-05-05 15:28:24Z</p>	Herbaceous grasslands in advanced stages of growth	VVA
Forest	FR	 <p>MTDNRC_Tetons FR002 2020-06-01 14:50:43-06:00</p>	Forested areas dominated by deciduous and coniferous species	VVA
Bare Earth	BE	 <p>DIRECTION N (T) 47.91885°N ACCURACY 5 m DATUM WGS84 111.92023°W</p> <p>BE034 GVL 2020-05-03 19:26:22Z</p>	Areas of bare earth surface	NVA
Urban	UA	 <p>DIRECTION N (T) 47.81340°N ACCURACY 5 m DATUM WGS84 111.99864°W</p> <p>UA009 PVD 2020-04-14 17:44:38Z</p>	Areas dominated by urban development including parks.	NVA

Teton County, Montana Ground Survey Locations

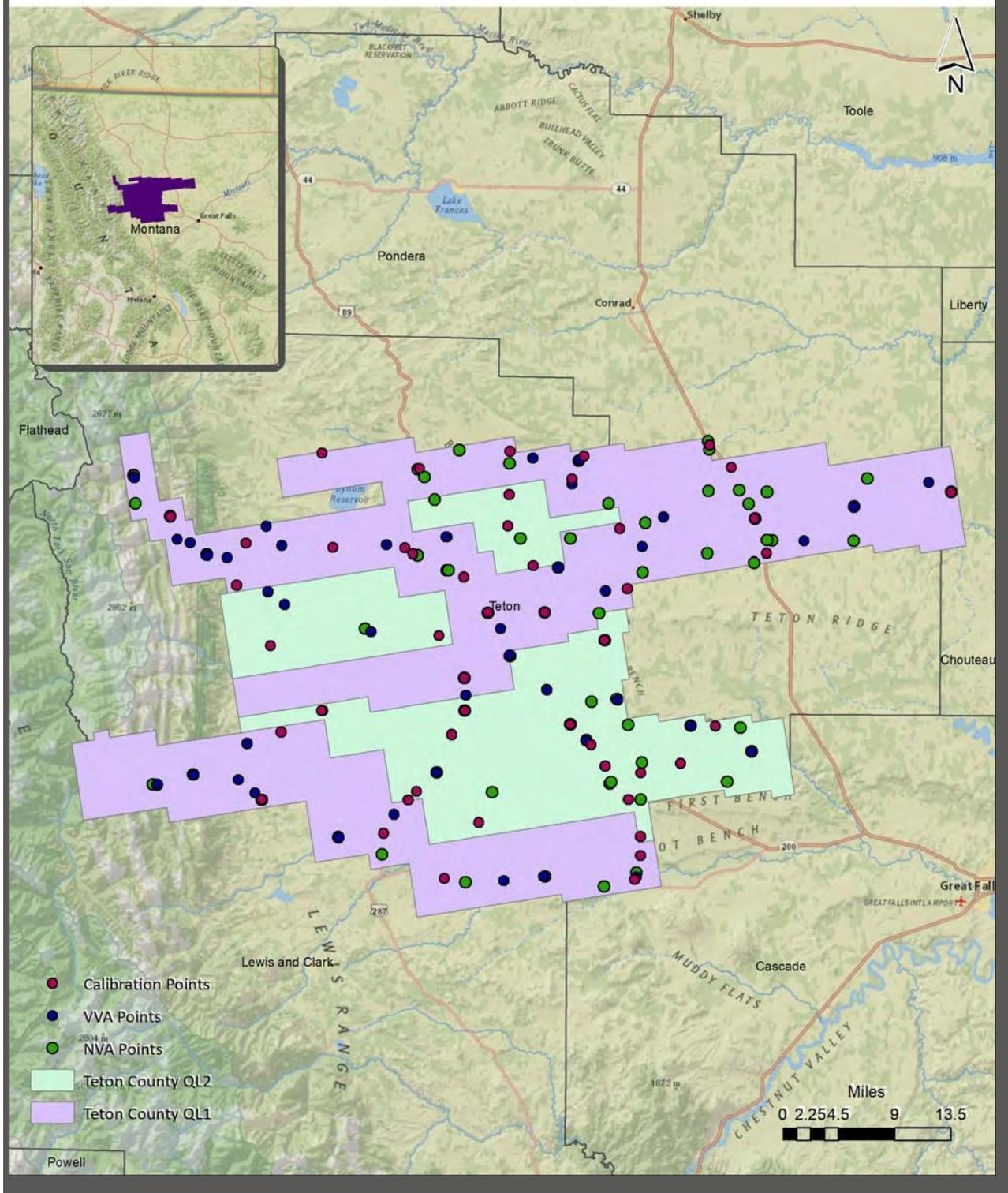


Figure 3. Ground Survey Locations

4. Processing Summary

Upon completion of data acquisition, Quantum Spatial processing staff initiated a suite of automated and manual techniques to process the data into the requested deliverables. Processing tasks included GPS control computations, smoothed best estimate trajectory (SBET) calculations, kinematic corrections, calculation of laser point position, sensor and data calibration for optimal relative and absolute accuracy, and Lidar point classification (Table 6). Processing methodologies were tailored for the landscape.

4.1. LiDAR Processing

Applanix + POSPac software was used for post-processing of airborne GPS and inertial data (IMU), which is critical to the positioning and orientation of the LiDAR sensor during all flights. Applanix POSPac combines aircraft raw trajectory data with stationary GPS base station data yielding a “Smoothed Best Estimate Trajectory” (SBET) necessary for additional post processing software to develop the resulting geo-referenced point cloud from the LiDAR missions.

During the sensor trajectory processing (combining GPS & IMU datasets) certain statistical graphs and tables are generated within the Applanix POSPac processing environment which are commonly used as indicators of processing stability and accuracy. This data for analysis include: max horizontal / vertical GPS variance, separation plot, altitude plot, PDOP plot, base station baseline length, processing mode, number of satellite vehicles, and mission trajectory.

Point clouds were created using the RiPROCESS software. The generated point cloud is the mathematical three dimensional composite of all returns from all laser pulses as determined from the aerial mission. The point cloud is imported into GeoCue distributive processing software. Imported data is tiled and then calibrated using TerraMatch and proprietary software. Using TerraScan, the vertical accuracy of the surveyed ground control is tested and any bias is removed from the data. TerraScan and TerraModeler software packages are then used for automated data classification and manual cleanup. The data are manually reviewed and any remaining artifacts removed using functionality provided by TerraScan and TerraModeler.

DEMs and Intensity Images are then generated using proprietary software. In the bare earth surface model, above-ground features are excluded from the data set. Global Mapper is used as a final check of the bare earth dataset.

Finally, proprietary software is used to perform statistical analysis of the LAS files.

Software	Version
Applanix + POSPac	8.4
RiPROCESS	1.8.6
GeoCue	2017.1.14.1
Global Mapper	19.1;20.1
TerraModeler	20.004
TerraScan	20.011
TerraMatch	20.004

4.2. LAS Classification Scheme

The classification classes are determined by the USGS Version 1.3 specifications and are an industry standard for the classification of LIDAR point clouds. All data starts the process as Class 1 (Unclassified), and then through automated classification routines, the classifications are determined using TerraScan macro processing.

The classes used in the dataset are as follows and have the following descriptions:

Table 6. LAS Classifications

	Classification Name	Description
1	Processed, but Unclassified	Laser returns that are not included in the ground class, or any other project classification
1-0	Default Overlap	Points that are at the edge of the swatch and/or points that are geometrically unreliable
2	Bare earth	Laser returns that are determined to be ground using automated and manual cleaning algorithms
6	Buildings	Points falling on buildings, structures inside of water bodies, docks, and piers.
7	Low Noise	Laser returns that are often associated with scattering from reflective surfaces, or artificial points below the ground surface
9	Water	Laser returns that are found inside of hydro features
17	Bridge Deck	Laser returns falling on bridge decks
20	Ignored Ground	Ground points that fall within the given threshold of a collected hydro feature.

4.3 Classified LAS Processing

The bare earth surface is then manually reviewed to ensure correct classification on the Class 2 (Ground) points. After the bare- earth surface is finalized; it is then used to generate all hydro-breaklines through heads-up digitization.

All ground (ASPRS Class 2) LiDAR data inside of the Lake Pond and Double Line Drain hydro flattening breaklines were then classified to water (ASPRS Class 9) using TerraScan macro functionality. A buffer of 3 feet was also used around each hydro flattened feature to classify these ground (ASPRS Class 2) points to Ignored ground (ASPRS Class 20). All Lake Pond Island and Double Line Drain Island features were checked to ensure that the ground (ASPRS Class 2) points were reclassified to the correct classification after the automated classification was completed.

All overlap data was processed through automated functionality provided by TerraScan to classify

the overlapping flight line data to approved classes by USGS. The overlap data was identified using the Overlap Flag, per LAS 1.4 specifications.

All data was manually reviewed, and any remaining artifacts removed using functionality provided by TerraScan and TerraModeler. Global Mapper is used as a final check of the bare earth dataset. GeoCue was then used to create the deliverable industry-standard LAS files for all point cloud data. Quantum Spatial's proprietary software was used to perform final statistical analysis of the classes in the LAS files, on a per tile level to verify final classification metrics and full LAS header information.

4.4. Hydro-Flattened Breakline Processing

Class 2 LiDAR was used to create a bare earth surface model. The surface model was then used to heads-up digitize 2D breaklines of Inland Streams and Rivers with a 100 foot nominal width and Inland Ponds and Lakes of 2 acres or greater surface area.

Elevation values were assigned to all Inland Ponds and Lakes, Inland Pond and Lake Islands, Inland Streams and Rivers and Inland Stream and River Islands using TerraModeler functionality.

Elevation values were assigned to all Inland streams and rivers using Quantum Spatial's proprietary software.

All ground (ASPRS Class 2) LiDAR data inside of the collected inland breaklines were then classified to water (ASPRS Class 9) using TerraScan macro functionality. A buffer of 1 meter was also used around each hydro flattened feature. These points were moved from ground (ASPRS Class 2) to Ignored Ground (ASPRS Class 20).

The breakline files were then translated to Polyline Z shapefile in ESRI Geodatabase, and ASCII txt format.

Breaklines are reviewed against lidar intensity imagery to verify completeness of capture. All breaklines are then compared to TINs (triangular irregular networks) created from ground only points prior to water classification. The horizontal placement of breaklines is compared to terrain features and the breakline elevations are compared to lidar elevations to ensure all breaklines match the lidar within acceptable tolerances. Some deviation is expected between breakline and lidar elevations due to monotonicity, connectivity, and flattening rules that are enforced on the breaklines. Once completeness, horizontal placement, and vertical variance is reviewed, all breaklines are reviewed for topological consistency and data integrity using a combination of Esri Data Reviewer tools and proprietary tools.

4.5. Hydro-Flattened Raster DEM Processing

Class 2 LiDAR in conjunction with the hydro breaklines were used to create a 1-meter Raster DEM. Using automated scripting routines within proprietary software, a GeoTIFF file was created for each tile. Each surface is reviewed using Global Mapper to check for any surface anomalies or incorrect elevations found within the surface.

4.6. Intensity Image Processing

GeoCue software was used to create the deliverable intensity images. All overlap classes were ignored during this process. This helps to ensure a more aesthetically pleasing image. The GeoCue software was then used to verify full project coverage as well. GeoTIFF files with a cell size of 0.5-meter were then provided as the deliverable for this dataset requirement.

4.7. Contour Processing

Contour generation from Lidar point data required a thinning operation in order to reduce contour sinuosity. The thinning operation reduced point density where topographic change is minimal (i.e., flat surfaces) while preserving resolution where topographic change was present. Model key points were selected from the ground model every foot with the spacing decreased in regions with high surface curvature. Generation of model key points eliminated redundant detail in terrain representation, particularly in areas of low relief, and provided for a more manageable dataset. Contours were produced through TerraModeler by interpolating between the model key points at even elevation increments.

4.8. Building Footprint Processing

Polygons were generated with an automated routine that utilized the Class 6 (Buildings) building points as an input. The polygons were then simplified to remove any extraneous vertices. A height value is assigned using the highest Z value found in the Class 6 building points located inside a given building polygon. The final polygon features were produced in ESRI shapefile format.

5. Lidar Accuracy Assessments

The accuracy of the Lidar data collection can be described in terms of absolute accuracy (the consistency of the data with external data sources) and relative accuracy (the consistency of the dataset with itself). For more information, refer to the Focus on Accuracy report in Appendix A.

5.1. Calibration Control Point Testing

TerraScan was used to perform a quality assurance check using the LiDAR bare earth calibration points. The results of the surface calibration are not an independent assessment of the accuracy of these project deliverables, but the statistical results do provide additional feedback as to the overall quality of the elevation surface.

5.2. Point Cloud Testing

The project specifications require that only Non-Vegetated Vertical Accuracy (NVA) be computed for raw lidar point cloud swath files. The required accuracy (ACCz) is: 19.6 cm at a 95% confidence level, derived according to NSSDA, i.e., based on RMSE of 10 cm in the “bare earth” and “urban” land cover classes. The NVA was tested with 69 checkpoints located in bare earth and urban (non-vegetated) areas. These check points were not used in the calibration or post processing of the lidar point cloud data. The checkpoints were distributed throughout the project area and were surveyed using GPS techniques. See survey report for additional survey methodologies.

Elevations from the unclassified lidar surface were measured for the x,y location of each check point. Elevations interpolated from the lidar surface were then compared to the elevation values of the surveyed control points. AccuracyZ has been tested to meet 19.6 cm or better Non-Vegetated Vertical Accuracy at 95% confidence level using $RMSE(z) \times 1.9600$ as defined by the National Standards for Spatial Data Accuracy (NSSDA); assessed and reported using National Digital Elevation Program (NDEP)/ASRPS Guidelines.

5.3. Digital Elevation Model (DEM) Testing

The project specifications require the accuracy (ACCz) of the derived DEM be calculated and reported in two ways:

1. The required NVA is: 19.6 cm at a 95% confidence level, derived according to NSSDA, i.e., based on RMSE of 10 cm in the “bare earth” and “urban” land cover classes. This is a required accuracy. The NVA was tested with 69 checkpoints located in bare earth and urban (non-vegetated) areas.
2. Vegetated Vertical Accuracy (VVA): VVA shall be reported for “tall grass”, “forest”, and “shrub” land cover classes. The target VVA is: 29.4 cm at the 95th percentile, derived according to ASPRS Guidelines, Vertical Accuracy Reporting for Lidar Data, i.e., based

on the 95th percentile error in all vegetated land cover classes combined. This is a target accuracy. The VVA was tested with 56 checkpoints located in vegetated areas. The checkpoints were distributed throughout the project area and were surveyed using GPS techniques.

AccuracyZ has been tested to meet 19.6 cm or better Non-Vegetated Vertical Accuracy at 95% confidence level using $RMSE(z) \times 1.9600$ as defined by the National Standards for Spatial Data Accuracy (NSSDA); assessed and reported using National Digital Elevation Program (NDEP)/ ASRPS Guidelines.

A brief summary of results are listed below.

	Target	Measured	Point Count
NVA (Ground LAS)	0.196	.0406 m	69
NVA (DEM)	0.196	.0411 m	69
VVA (Ground LAS)	0.294	.2116 m	56
VVA (DEM)	0.294	.1875 m	56

Certifications

Quantum Spatial, Inc. provided lidar services for the Teton County, Montana project as described in this report.

I, Ashley Daigle, have reviewed the attached report for completeness and hereby state that it is a complete and accurate report of this project.

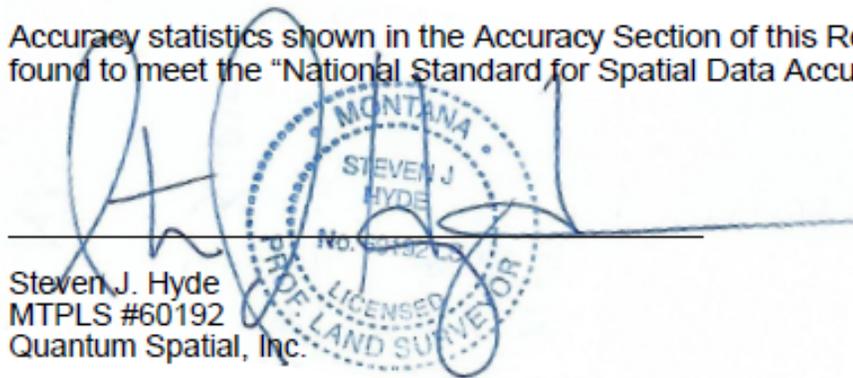
Ashley Daigle

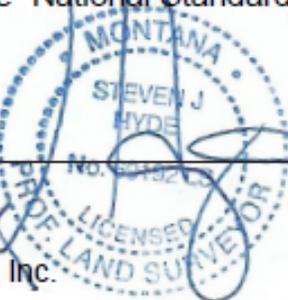
Oct 5, 2020

Ashley Daigle
Project Manager
Quantum Spatial, Inc.

I, Steven J. Hyde, PLS, being duly registered as a Professional Land Surveyor in and by the state of Montana hereby certify that the methodologies, static GNSS occupations used during airborne flights, and ground survey point collection were performed using commonly accepted Standard Practices. Field work conducted for this report was conducted between March 31, 2020 to June 4, 2020.

Accuracy statistics shown in the Accuracy Section of this Report have been reviewed by me and found to meet the "National Standard for Spatial Data Accuracy".


Steven J. Hyde
MTPLS #60192
Quantum Spatial, Inc.



Project Report Appendices

The following section contains the appendices as listed in the Teton County, Montana Technical Data Report.

Appendix A

Focus on Accuracy Report

FOCUS on Accuracy

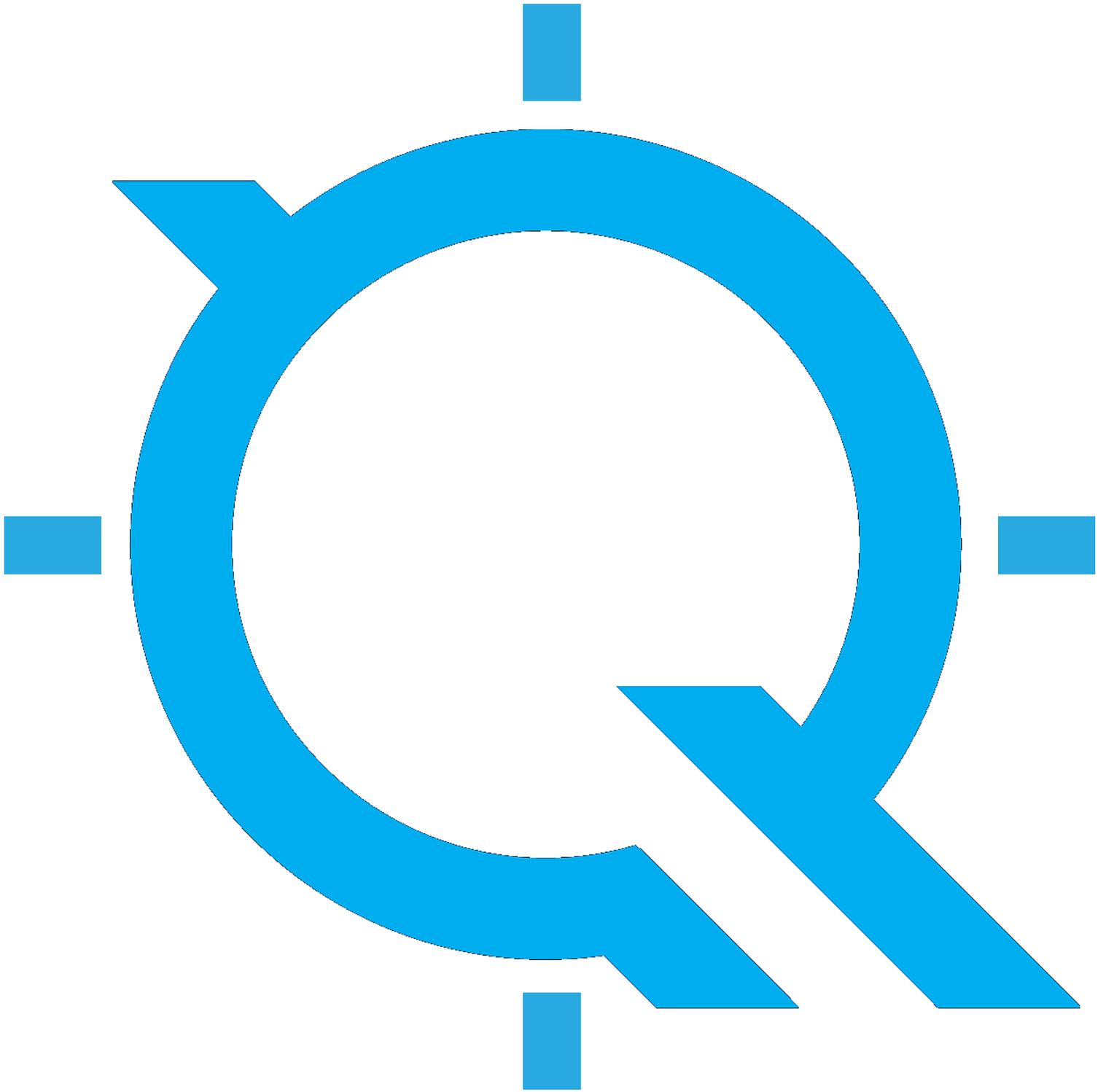
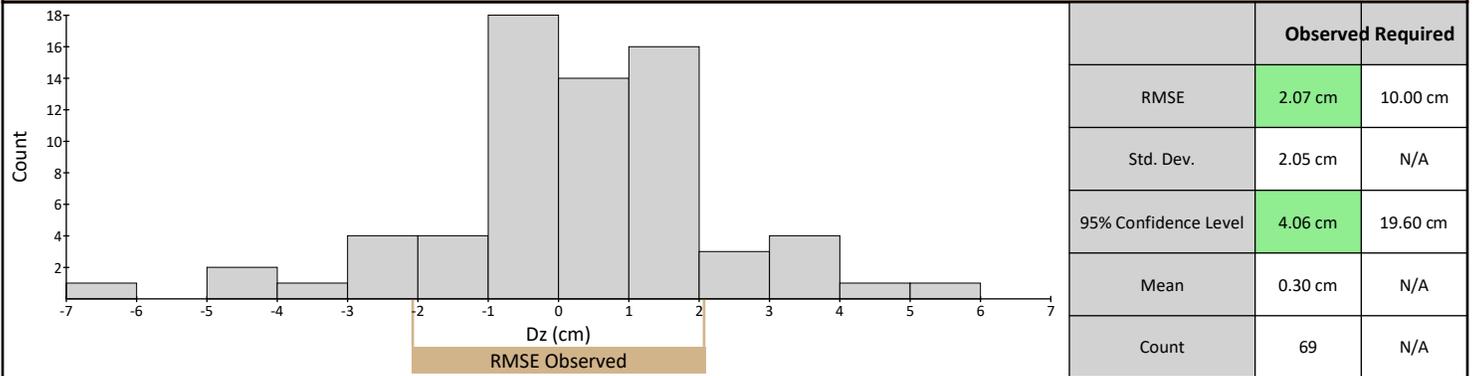


Table of Contents

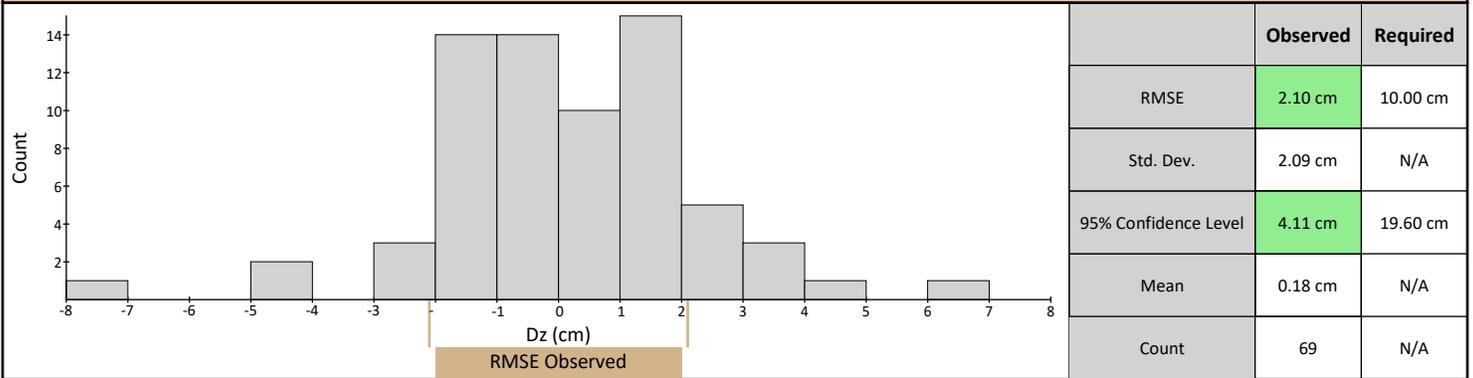
Vertical Accuracy Assessment	3
Control Point Locations	4
Control Point Breakdown	5
Individual Control Point Pages	10

Vertical Accuracy Assessment

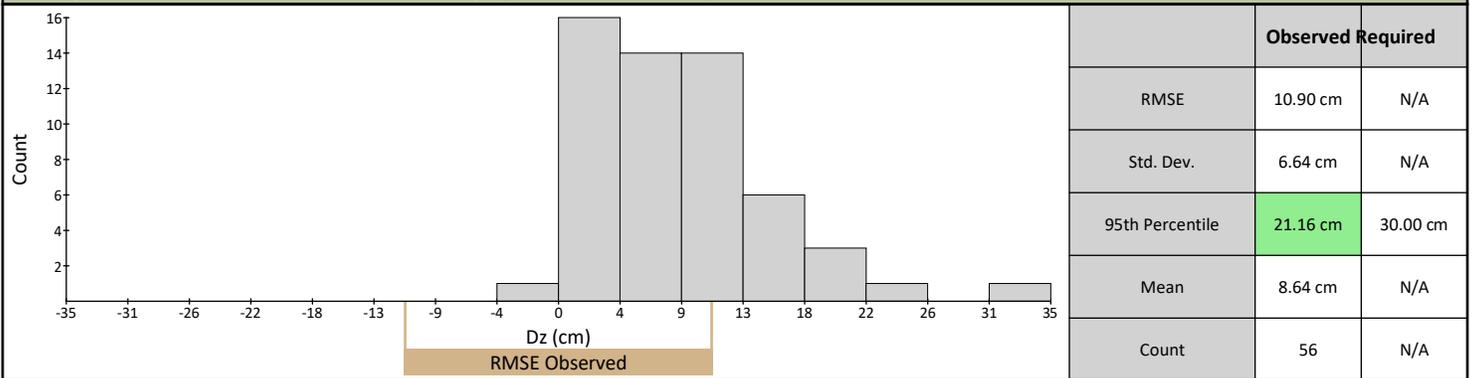
Nonvegetated Vertical Accuracy (Ground LAS)



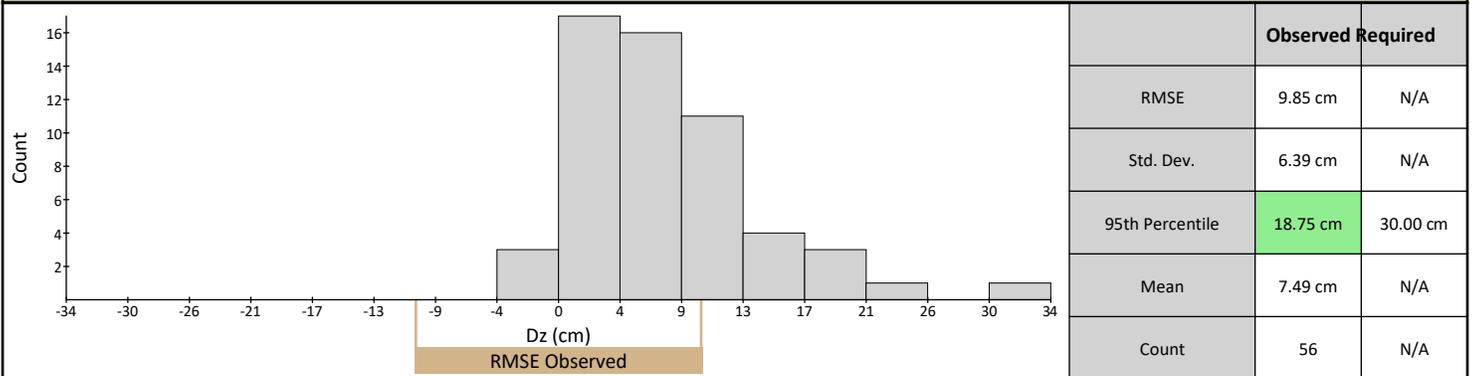
Nonvegetated Vertical Accuracy (DEM)



Vegetated Vertical Accuracy (Ground LAS)

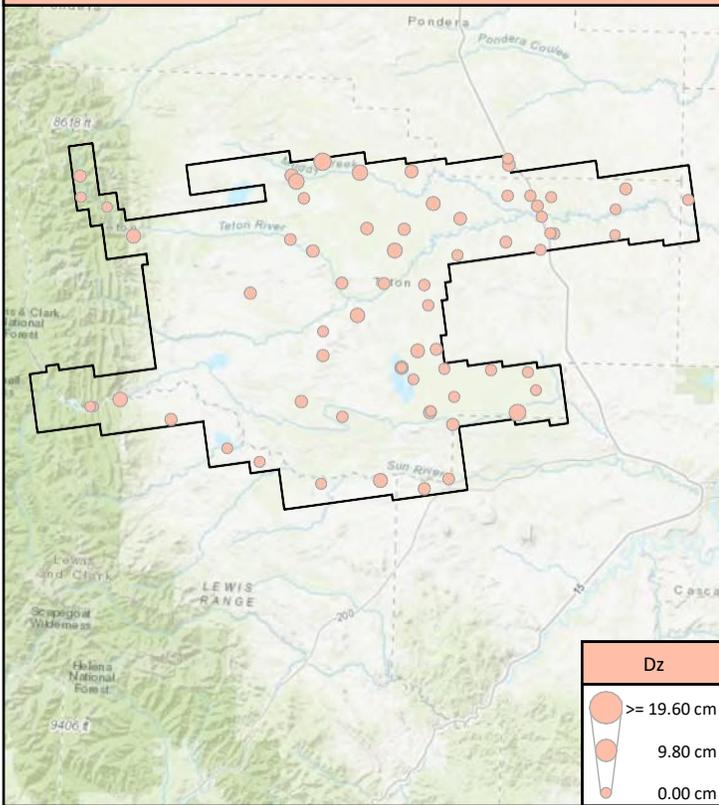


Vegetated Vertical Accuracy (DEM)

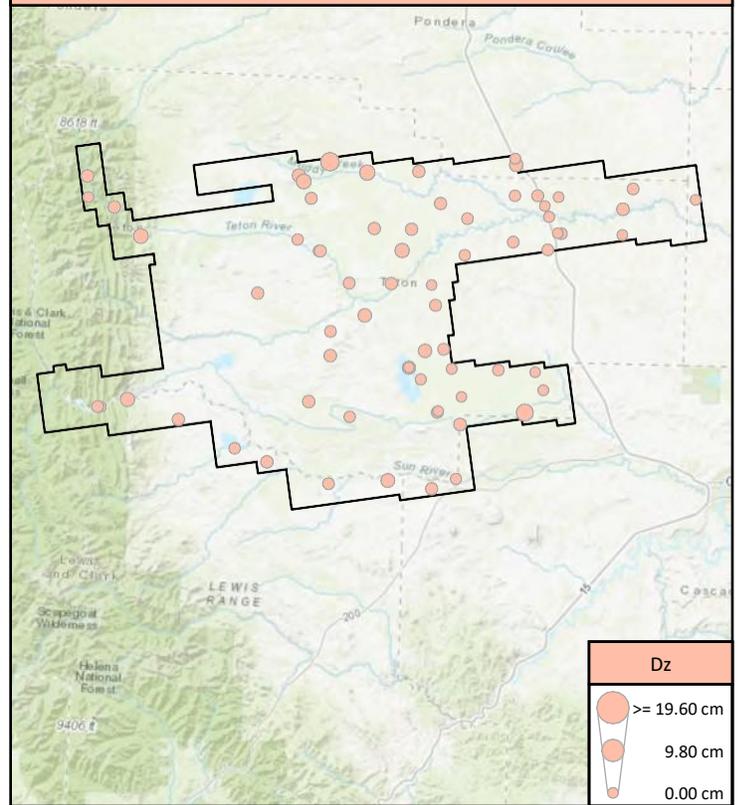


Control Point Locations

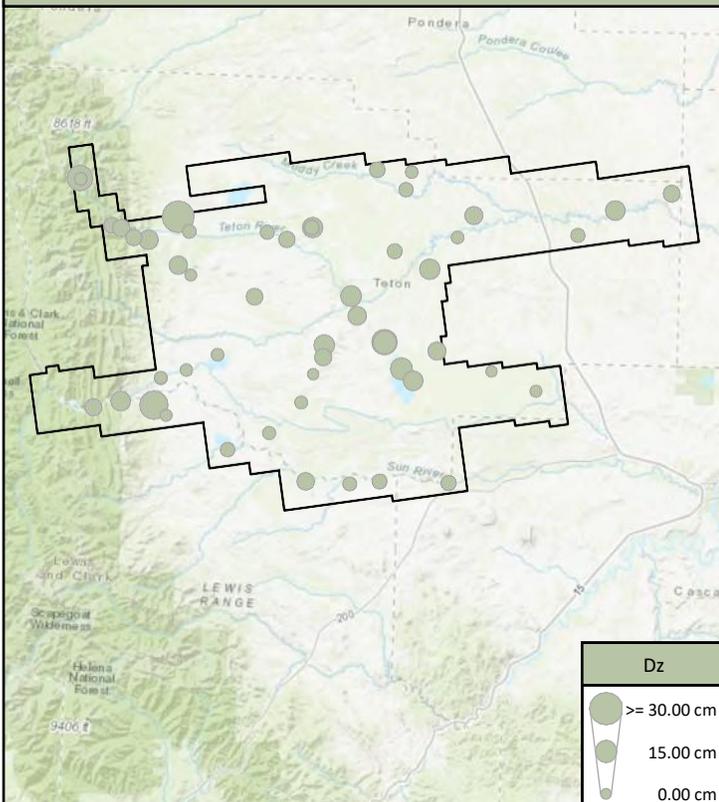
Nonvegetated Vertical Accuracy (Ground LAS)



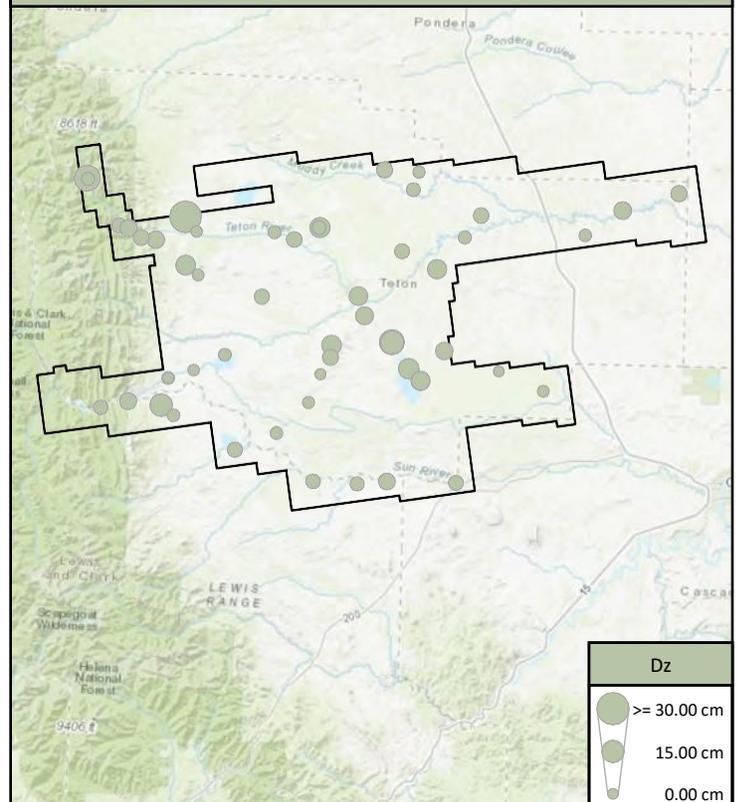
Nonvegetated Vertical Accuracy (DEM)



Vegetated Vertical Accuracy (Ground LAS)



Vegetated Vertical Accuracy (DEM)



Control Point Breakdown

Point	Type	Page	Ground (LAS Points)				DEM Dz
			Dz	Density	Nearest	Slope	
BE001	NVA	10	1.06 cm	13.51 ppsm	0.08 m	8.84°	1.11 cm
BE002	NVA	11	1.90 cm	3.01 ppsm	0.19 m	5.85°	1.75 cm
BE003	NVA	12	1.57 cm	22.00 ppsm	0.02 m	1.82°	1.83 cm
BE004	NVA	13	1.38 cm	16.62 ppsm	0.10 m	5.43°	1.83 cm
BE005	NVA	14	-3.24 cm	17.58 ppsm	0.11 m	5.65°	-1.66 cm
BE006	NVA	15	3.68 cm	21.40 ppsm	0.08 m	4.85°	2.93 cm
BE007	NVA	16	-0.02 cm	18.53 ppsm	0.07 m	2.02°	0.45 cm
BE008	NVA	17	-0.04 cm	28.72 ppsm	0.09 m	4.00°	0.32 cm
BE009	NVA	18	1.01 cm	19.13 ppsm	0.15 m	3.72°	-1.50 cm
BE010	NVA	19	0.67 cm	2.79 ppsm	0.09 m	3.15°	-0.02 cm
BE011	NVA	20	-0.10 cm	12.94 ppsm	0.12 m	2.86°	0.24 cm
BE012	NVA	21	3.90 cm	28.65 ppsm	0.03 m	1.15°	3.56 cm
BE013	NVA	22	1.53 cm	17.40 ppsm	0.19 m	0.86°	1.63 cm
BE014	NVA	23	4.12 cm	18.11 ppsm	0.13 m	6.56°	3.65 cm
BE015	NVA	24	0.96 cm	2.79 ppsm	0.14 m	3.64°	0.91 cm
BE016	NVA	25	-1.26 cm	19.52 ppsm	0.13 m	7.25°	-1.19 cm
BE017	NVA	26	-1.35 cm	12.38 ppsm	0.04 m	3.15°	-0.14 cm
BE018	NVA	27	1.85 cm	19.81 ppsm	0.10 m	1.62°	2.19 cm
BE019	NVA	28	-0.92 cm	13.30 ppsm	0.06 m	6.84°	-0.90 cm
BE020	NVA	29	-0.52 cm	15.77 ppsm	0.12 m	4.29°	-1.24 cm
BE021	NVA	30	2.28 cm	3.15 ppsm	0.30 m	1.15°	1.24 cm
BE022	NVA	31	1.14 cm	13.12 ppsm	0.16 m	1.72°	0.70 cm
BE023	NVA	32	1.61 cm	6.15 ppsm	0.16 m	2.58°	2.04 cm
BE024	NVA	33	1.74 cm	3.11 ppsm	0.38 m	2.83°	1.86 cm
BE025	NVA	34	1.63 cm	9.97 ppsm	0.04 m	11.98°	1.70 cm
BE026	NVA	35	1.66 cm	17.61 ppsm	0.12 m	4.65°	1.75 cm
BE027	NVA	36	-0.39 cm	2.65 ppsm	0.44 m	2.00°	-0.67 cm
BE028	NVA	37	0.59 cm	23.77 ppsm	0.13 m	1.62°	-1.24 cm

Control Point Breakdown (continued)

Point	Type	Page	Ground (LAS Points)				DEM Dz
			Dz	Density	Nearest	Slope	
BE029	NVA	38	0.52 cm	18.39 ppsm	0.06 m	6.56°	-0.29 cm
BE030	NVA	39	-0.22 cm	18.32 ppsm	0.25 m	1.01°	-1.25 cm
BE031	NVA	40	-6.41 cm	13.33 ppsm	0.17 m	2.58°	-7.36 cm
BE032	NVA	41	-2.32 cm	11.95 ppsm	0.15 m	4.86°	-1.86 cm
BE033	NVA	42	0.33 cm	13.09 ppsm	0.17 m	1.15°	1.93 cm
BE034	NVA	43	-2.03 cm	11.74 ppsm	0.16 m	7.41°	-1.15 cm
BE035	NVA	44	-0.51 cm	13.90 ppsm	0.07 m	2.86°	-0.16 cm
BE036	NVA	45	-0.83 cm	4.77 ppsm	0.21 m	6.28°	-1.06 cm
BE037	NVA	46	3.00 cm	2.79 ppsm	0.21 m	2.00°	2.83 cm
BE038	NVA	47	1.49 cm	14.78 ppsm	0.19 m	1.43°	1.27 cm
BE039	NVA	48	-1.69 cm	11.95 ppsm	0.19 m	1.01°	-2.12 cm
BE040	NVA	49	5.73 cm	4.99 ppsm	0.15 m	6.84°	6.02 cm
BE041	NVA	50	-0.97 cm	10.61 ppsm	0.11 m	0.29°	-0.74 cm
BE042	NVA	51	2.72 cm	4.14 ppsm	0.11 m	1.43°	2.54 cm
BE043	NVA	52	0.29 cm	2.83 ppsm	0.44 m	4.86°	0.36 cm
BE044	NVA	53	0.22 cm	33.14 ppsm	0.15 m	21.08°	-1.95 cm
BE045	NVA	54	0.86 cm	9.48 ppsm	0.22 m	5.25°	1.41 cm
BE046	NVA	55	-2.85 cm	13.02 ppsm	0.13 m	1.43°	-2.82 cm
BE047	NVA	56	-0.60 cm	15.07 ppsm	0.16 m	3.04°	-0.80 cm
BE048	NVA	57	-0.64 cm	6.97 ppsm	0.19 m	2.02°	-0.41 cm
BE049	NVA	58	0.64 cm	14.43 ppsm	0.17 m	4.25°	1.08 cm
BE050	NVA	59	3.22 cm	5.45 ppsm	0.16 m	3.24°	3.11 cm
BE051	NVA	60	-0.47 cm	16.41 ppsm	0.09 m	4.57°	-1.11 cm
BE052	NVA	61	3.49 cm	21.29 ppsm	0.12 m	5.65°	4.05 cm
BE053	NVA	62	-2.18 cm	14.08 ppsm	0.19 m	1.15°	-2.79 cm
BE054	NVA	63	1.15 cm	14.57 ppsm	0.06 m	5.14°	0.81 cm
BE055	NVA	64	-0.53 cm	12.20 ppsm	0.10 m	5.45°	-1.92 cm
BE056	NVA	65	1.46 cm	2.72 ppsm	0.33 m	8.45°	1.30 cm

Control Point Breakdown (continued)

Point	Type	Page	Ground (LAS Points)				DEM Dz
			Dz	Density	Nearest	Slope	
UA001	NVA	66	0.03 cm	3.01 ppsm	0.32 m	2.29°	-0.04 cm
UA002	NVA	67	-0.32 cm	9.30 ppsm	0.05 m	8.25°	0.24 cm
UA003	NVA	68	-1.34 cm	11.18 ppsm	0.21 m	0.86°	-1.10 cm
UA004	NVA	69	0.75 cm	14.39 ppsm	0.12 m	1.72°	0.52 cm
UA005	NVA	70	1.85 cm	20.37 ppsm	0.14 m	1.22°	1.53 cm
UA006	NVA	71	-0.32 cm	15.53 ppsm	0.14 m	1.22°	-0.97 cm
UA007	NVA	72	-0.53 cm	6.97 ppsm	0.27 m	4.57°	0.01 cm
UA008	NVA	73	0.59 cm	14.08 ppsm	0.09 m	5.14°	-0.01 cm
UA009	NVA	74	0.88 cm	13.90 ppsm	0.02 m	5.99°	-0.01 cm
UA010	NVA	75	0.10 cm	4.74 ppsm	0.18 m	1.82°	-0.11 cm
UA011	NVA	76	-0.79 cm	18.64 ppsm	0.02 m	3.72°	-1.43 cm
UA012	NVA	77	-4.72 cm	14.08 ppsm	0.16 m	2.86°	-4.07 cm
UA013	NVA	78	-4.62 cm	15.24 ppsm	0.23 m	4.57°	-4.50 cm
FR001	VVA	79	7.83 cm	5.02 ppsm	0.32 m	4.00°	6.58 cm
FR002	VVA	80	1.46 cm	4.03 ppsm	0.25 m	2.23°	2.55 cm
FR003	VVA	81	-0.21 cm	9.05 ppsm	0.15 m	1.15°	-0.70 cm
FR004	VVA	82	0.23 cm	11.92 ppsm	0.02 m	1.42°	1.58 cm
SH001	VVA	83	25.23 cm	16.30 ppsm	0.16 m	9.37°	17.14 cm
SH002	VVA	84	34.68 cm	17.08 ppsm	0.44 m	2.02°	33.57 cm
SH003	VVA	85	6.23 cm	16.23 ppsm	0.16 m	9.09°	8.72 cm
SH004	VVA	86	9.77 cm	14.71 ppsm	0.89 m	14.66°	9.79 cm
SH005	VVA	87	11.19 cm	19.38 ppsm	0.09 m	6.45°	13.23 cm
SH006	VVA	88	21.04 cm	3.61 ppsm	0.21 m	3.15°	20.41 cm
SH007	VVA	89	13.92 cm	11.95 ppsm	0.09 m	7.69°	13.67 cm
SH008	VVA	90	2.06 cm	8.42 ppsm	0.15 m	3.15°	2.00 cm
SH009	VVA	91	3.47 cm	27.91 ppsm	0.59 m	3.72°	2.87 cm
SH010	VVA	92	14.33 cm	13.30 ppsm	0.15 m	7.41°	13.04 cm
SH011	VVA	93	11.50 cm	2.69 ppsm	0.26 m	2.58°	11.95 cm

Control Point Breakdown (continued)

Point	Type	Page	Ground (LAS Points)				DEM Dz
			Dz	Density	Nearest	Slope	
SH012	VVA	94	21.55 cm	9.94 ppsm	0.36 m	3.15°	21.94 cm
TG001	VVA	95	16.21 cm	4.53 ppsm	0.21 m	3.15°	14.29 cm
TG002	VVA	96	5.19 cm	12.73 ppsm	0.04 m	4.57°	2.87 cm
TG003	VVA	97	3.02 cm	13.90 ppsm	0.10 m	1.43°	2.38 cm
TG004	VVA	98	7.19 cm	12.13 ppsm	0.15 m	3.72°	7.93 cm
TG005	VVA	99	9.37 cm	6.22 ppsm	0.36 m	1.82°	7.88 cm
TG006	VVA	100	2.59 cm	25.32 ppsm	0.07 m	5.85°	-1.36 cm
TG006	VVA	101	9.08 cm	13.55 ppsm	0.15 m	2.86°	8.26 cm
TG007	VVA	102	3.21 cm	14.78 ppsm	0.09 m	7.69°	3.56 cm
TG009	VVA	103	12.76 cm	15.92 ppsm	0.21 m	3.84°	9.89 cm
TG010	VVA	104	9.91 cm	18.99 ppsm	0.13 m	1.01°	5.79 cm
TG011	VVA	105	1.20 cm	4.39 ppsm	0.16 m	6.84°	0.44 cm
TG012	VVA	106	10.65 cm	10.47 ppsm	0.08 m	1.43°	7.16 cm
TG013	VVA	107	8.31 cm	16.73 ppsm	0.14 m	3.24°	7.62 cm
TG014	VVA	108	3.58 cm	28.12 ppsm	0.06 m	11.59°	2.84 cm
TG015	VVA	109	18.26 cm	3.78 ppsm	0.11 m	1.22°	18.20 cm
TG016	VVA	110	13.19 cm	26.14 ppsm	0.15 m	28.88°	9.27 cm
TG017	VVA	111	2.14 cm	2.90 ppsm	0.31 m	4.04°	1.96 cm
TG018	VVA	112	5.98 cm	16.91 ppsm	0.11 m	1.42°	4.48 cm
TG019	VVA	113	5.65 cm	16.41 ppsm	0.14 m	5.14°	6.55 cm
TG020	VVA	114	3.00 cm	21.89 ppsm	0.07 m	2.23°	3.56 cm
TG021	VVA	115	2.73 cm	16.66 ppsm	0.15 m	10.81°	1.57 cm
TG022	VVA	116	8.30 cm	12.13 ppsm	0.17 m	20.05°	7.19 cm
TG023	VVA	117	14.00 cm	13.12 ppsm	0.12 m	3.64°	12.42 cm
TG024	VVA	118	5.24 cm	15.31 ppsm	0.21 m	3.84°	3.56 cm
TG025	VVA	119	9.57 cm	20.27 ppsm	0.23 m	1.72°	5.70 cm
TG026	VVA	120	1.29 cm	2.94 ppsm	0.13 m	2.86°	0.82 cm
TG027	VVA	121	5.56 cm	16.55 ppsm	0.11 m	3.24°	4.74 cm

Control Point Breakdown (continued)

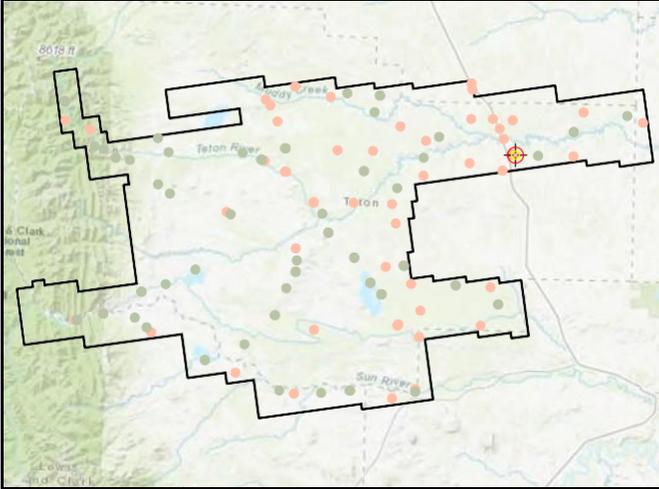
Point	Type	Page	Ground (LAS Points)				DEM Dz
			Dz	Density	Nearest	Slope	
TG028	VVA	122	8.81 cm	3.57 ppsm	0.25 m	8.25°	6.79 cm
TG030	VVA	123	3.36 cm	3.08 ppsm	0.16 m	1.43°	2.12 cm
TG031	VVA	124	10.68 cm	3.71 ppsm	0.10 m	5.14°	9.89 cm
TG032	VVA	125	12.93 cm	2.65 ppsm	0.18 m	3.44°	11.49 cm
TG033	VVA	126	14.62 cm	18.57 ppsm	0.33 m	1.43°	11.57 cm
TG034	VVA	127	6.74 cm	12.77 ppsm	0.01 m	2.00°	6.12 cm
TG035	VVA	128	4.86 cm	13.48 ppsm	0.14 m	12.41°	5.11 cm
TG036	VVA	129	2.01 cm	19.17 ppsm	0.36 m	1.82°	-3.05 cm
TG037	VVA	130	6.39 cm	18.96 ppsm	0.03 m	2.29°	6.29 cm
TG038	VVA	131	3.18 cm	17.01 ppsm	0.12 m	5.43°	3.25 cm
TG039	VVA	132	4.48 cm	13.26 ppsm	0.04 m	7.45°	1.41 cm
TG040	VVA	133	11.50 cm	17.93 ppsm	0.11 m	5.99°	10.49 cm
TG041	VVA	134	12.94 cm	14.04 ppsm	0.15 m	0.29°	10.19 cm

BE001

General	
Name	BE001
Type	NVA
Known Z	1079.27 m
DEM Dz	1.11 cm

Ground (LAS Points)	
Dz	1.06 cm
Density	13.51 ppsm
Nearest	0.08 m
Slope	8.84°

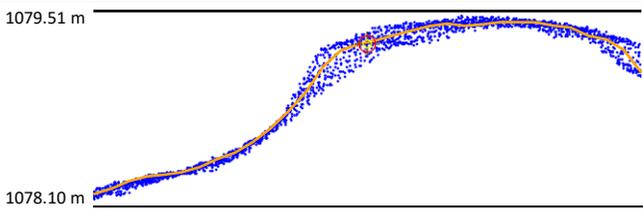
Project Context



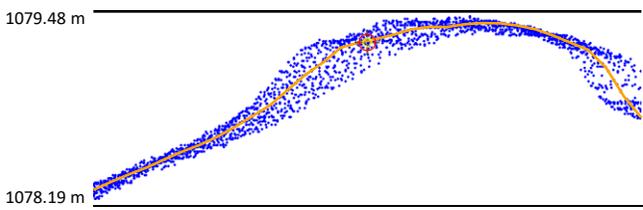
World Imagery



Cross Section - Northwest to Southeast



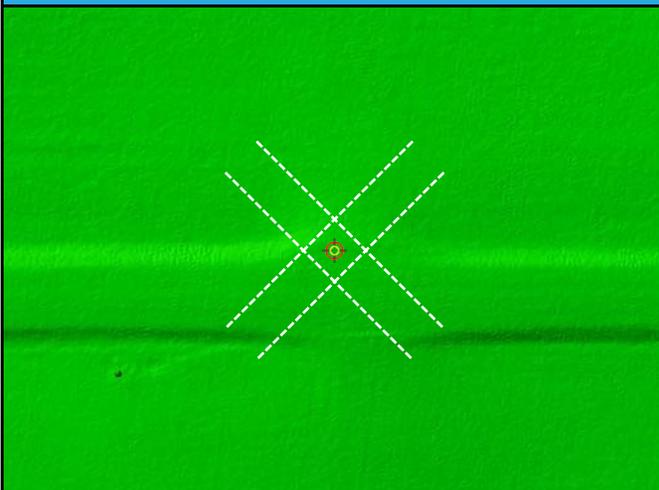
Cross Section - Northeast to Southwest



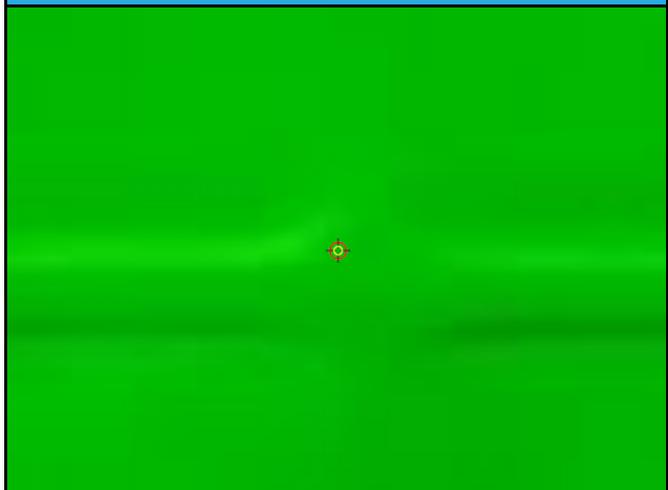
Intensity



LAS Points TIN



DEM

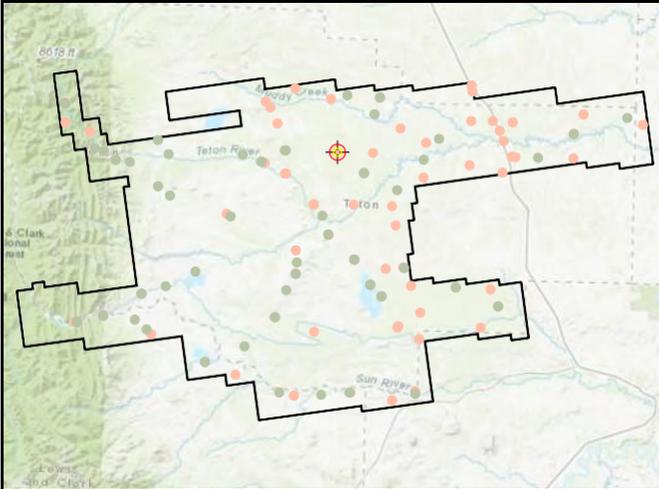


BE002

General	
Name	BE002
Type	NVA
Known Z	1168.78 m
DEM Dz	1.75 cm

Ground (LAS Points)	
Dz	1.90 cm
Density	3.01 ppsm
Nearest	0.19 m
Slope	5.85°

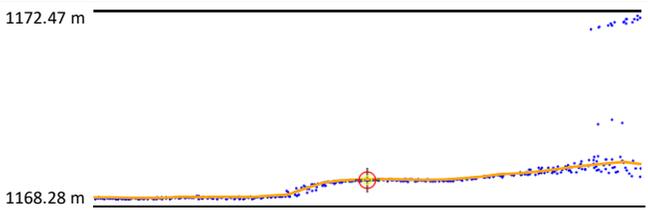
Project Context



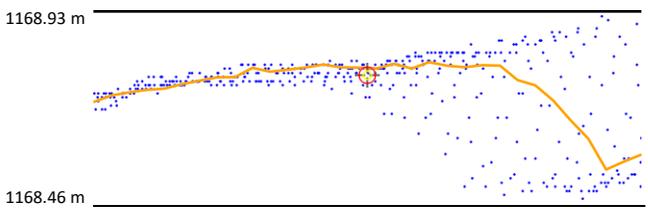
World Imagery



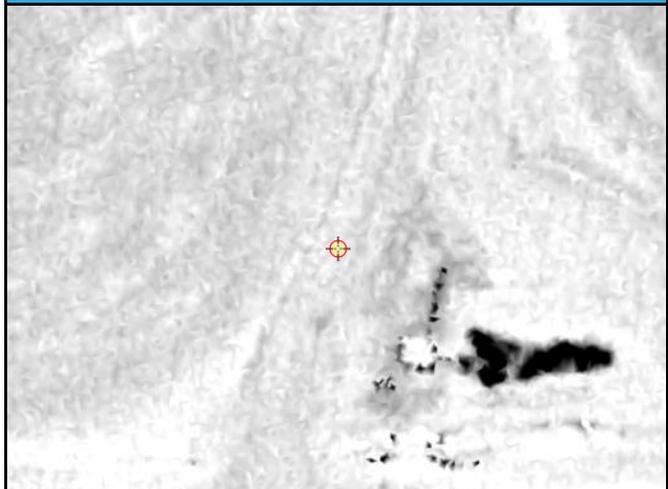
Cross Section - Northwest to Southeast



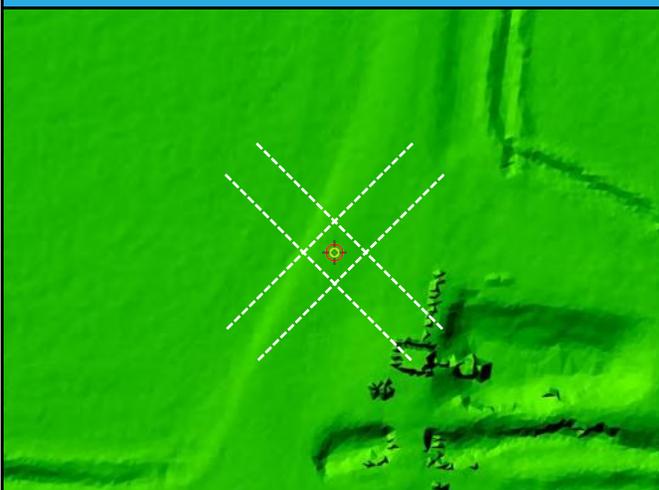
Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

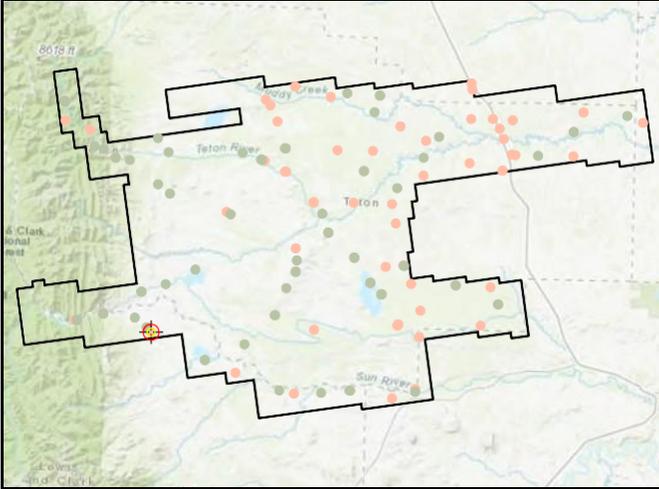


BE003

General	
Name	BE003
Type	NVA
Known Z	1373.43 m
DEM Dz	1.83 cm

Ground (LAS Points)	
Dz	1.57 cm
Density	22.00 ppsm
Nearest	0.02 m
Slope	1.82°

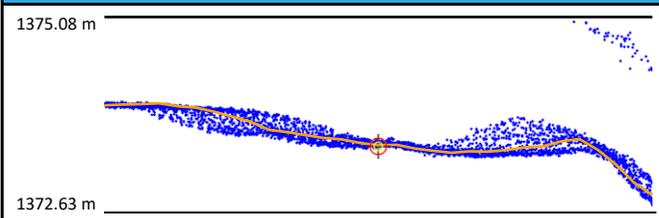
Project Context



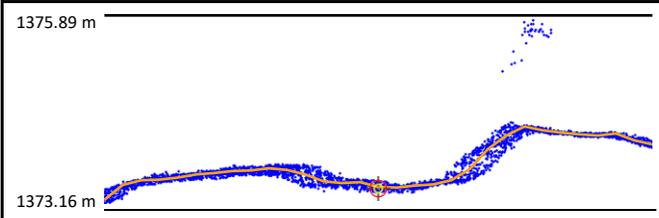
World Imagery



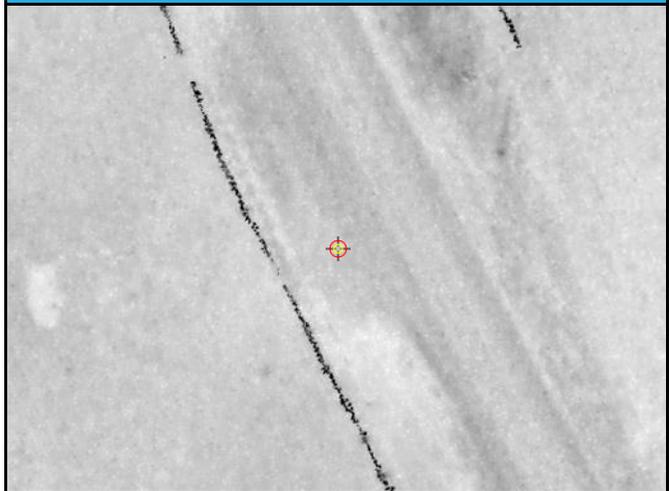
Cross Section - North to South



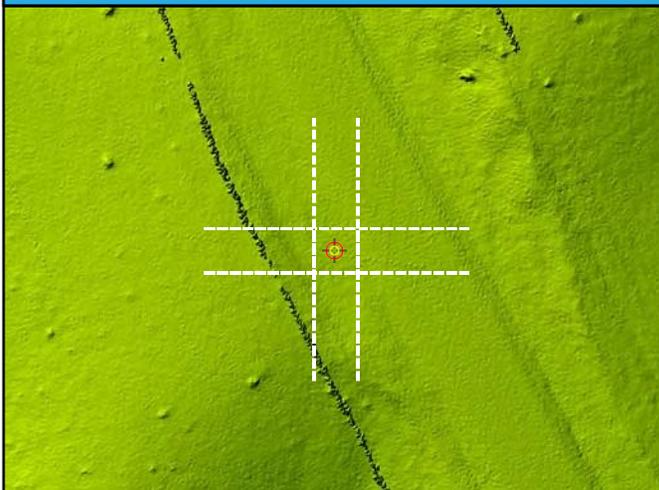
Cross Section - East to West



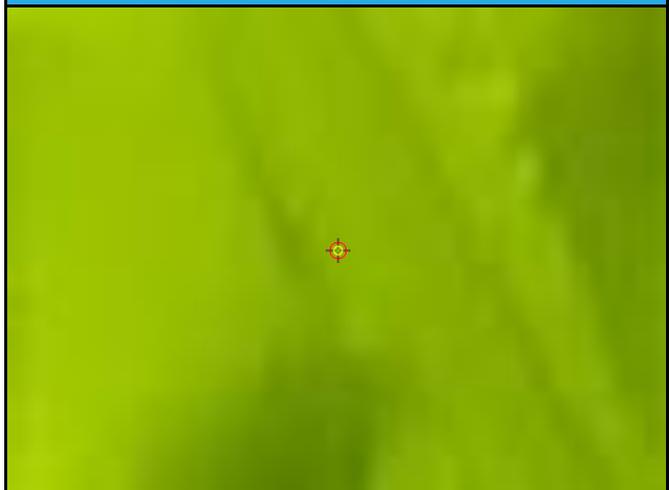
Intensity



LAS Points TIN



DEM

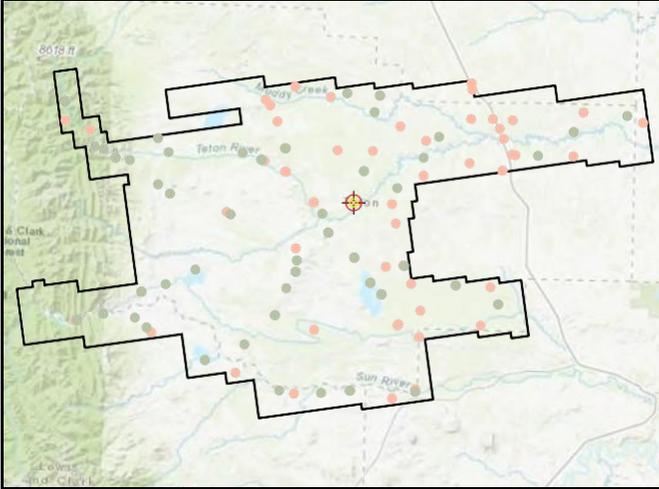


BE004

General	
Name	BE004
Type	NVA
Known Z	1145.05 m
DEM Dz	1.83 cm

Ground (LAS Points)	
Dz	1.38 cm
Density	16.62 ppsm
Nearest	0.10 m
Slope	5.43°

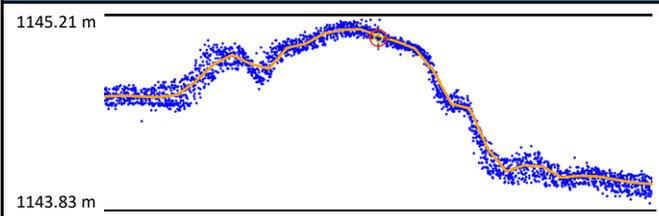
Project Context



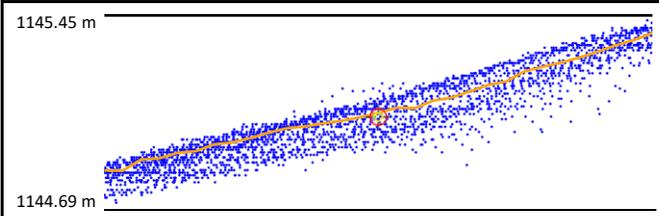
World Imagery



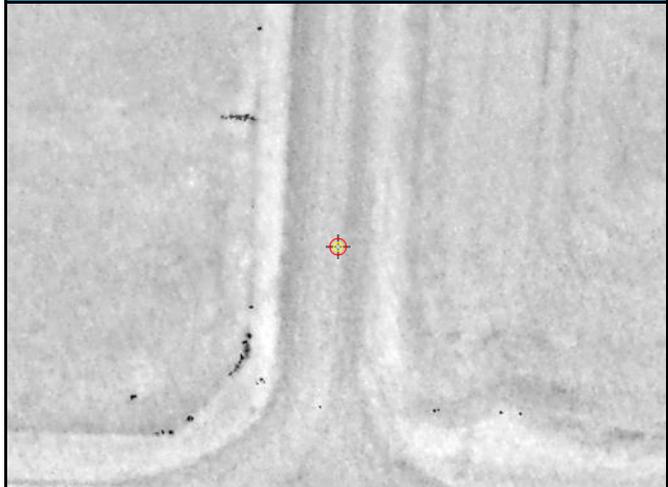
Cross Section - West to East



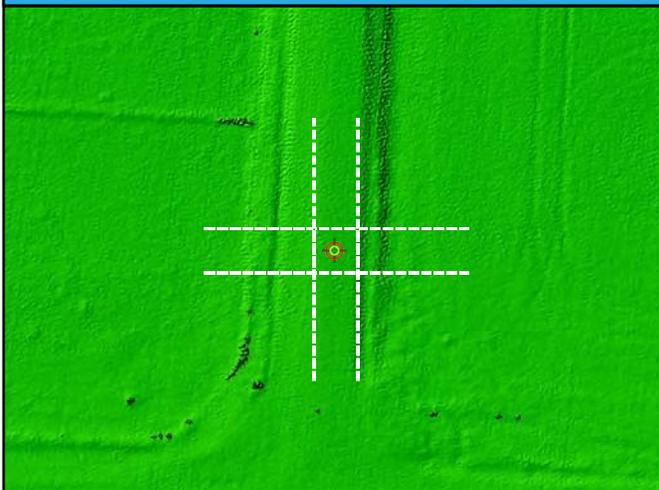
Cross Section - North to South



Intensity



LAS Points TIN



DEM

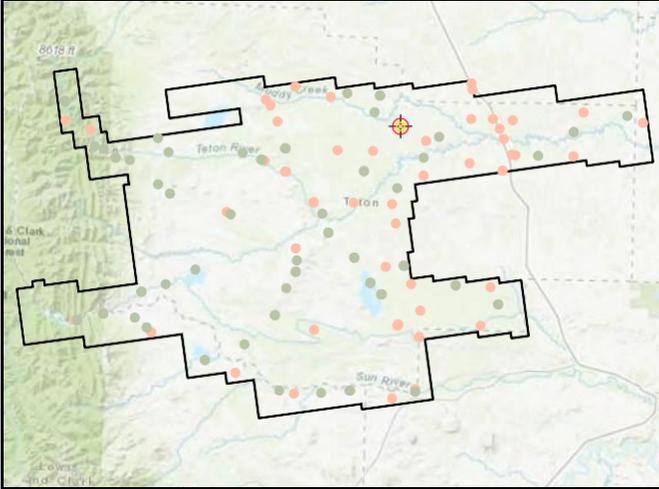


BE005

General	
Name	BE005
Type	NVA
Known Z	1133.86 m
DEM Dz	-1.66 cm

Ground (LAS Points)	
Dz	-3.24 cm
Density	17.58 ppsm
Nearest	0.11 m
Slope	5.65°

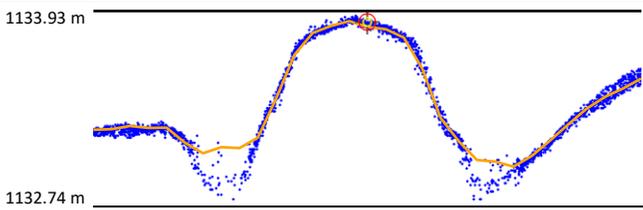
Project Context



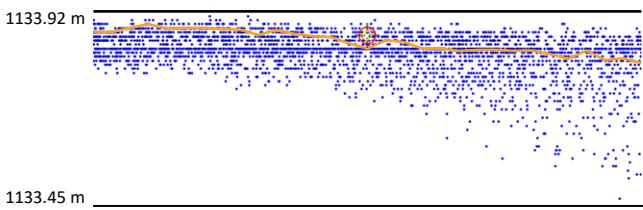
World Imagery



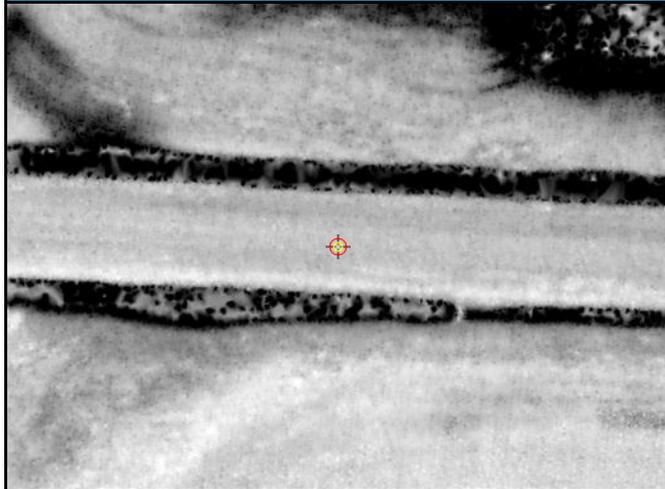
Cross Section - North to South



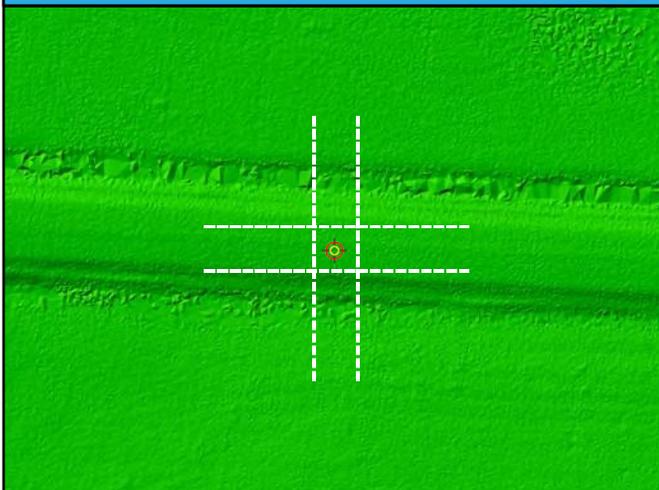
Cross Section - East to West



Intensity



LAS Points TIN



DEM

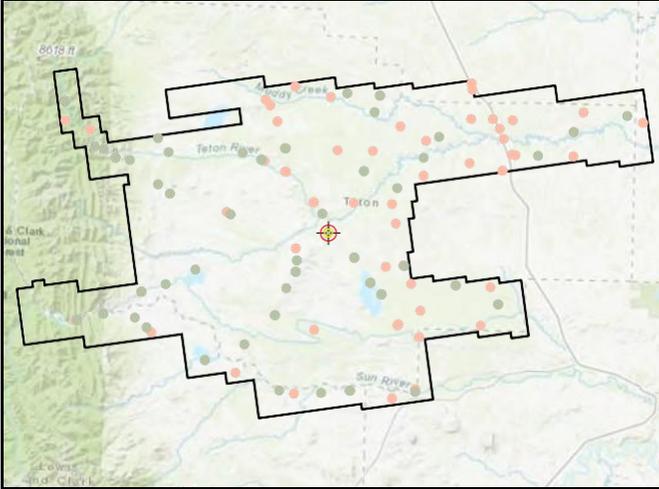


BE006

General	
Name	BE006
Type	NVA
Known Z	1188.71 m
DEM Dz	2.93 cm

Ground (LAS Points)	
Dz	3.68 cm
Density	21.40 ppsm
Nearest	0.08 m
Slope	4.85°

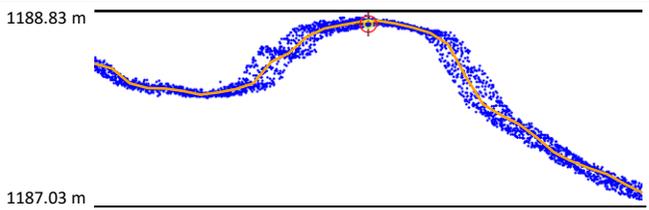
Project Context



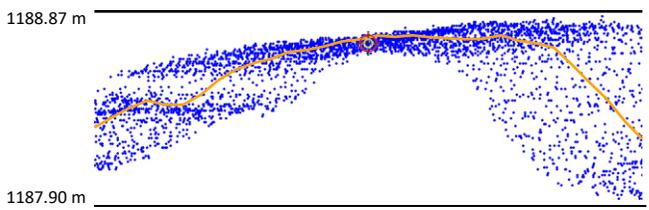
World Imagery



Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

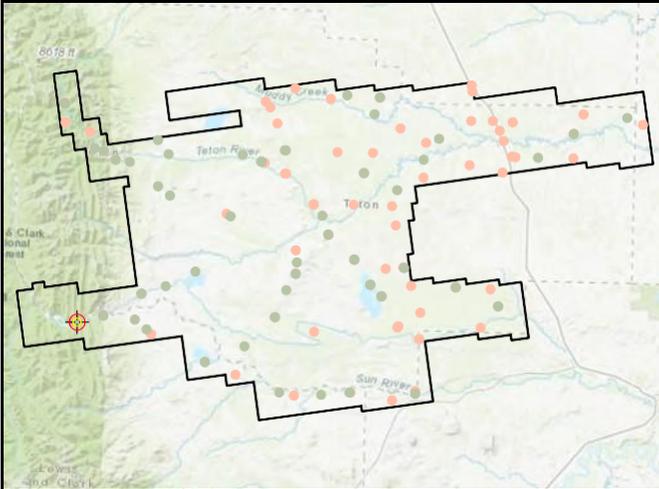


BE007

General	
Name	BE007
Type	NVA
Known Z	1389.78 m
DEM Dz	0.45 cm

Ground (LAS Points)	
Dz	-0.02 cm
Density	18.53 ppsm
Nearest	0.07 m
Slope	2.02°

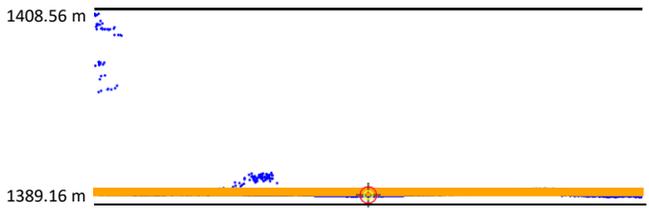
Project Context



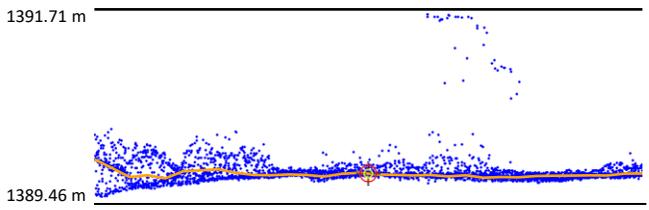
World Imagery



Cross Section - Southwest to Northeast



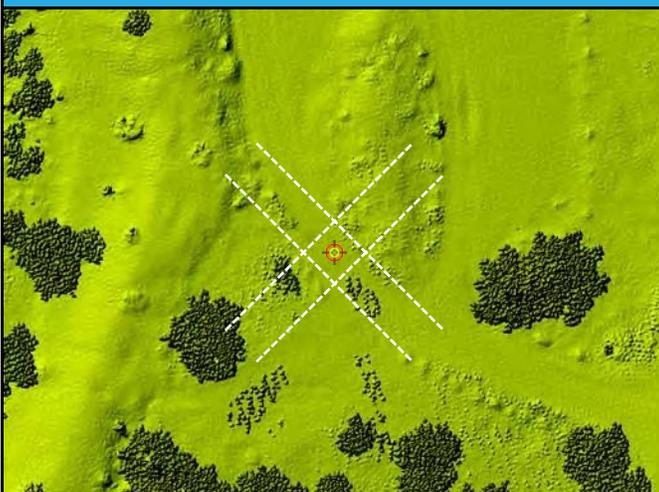
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

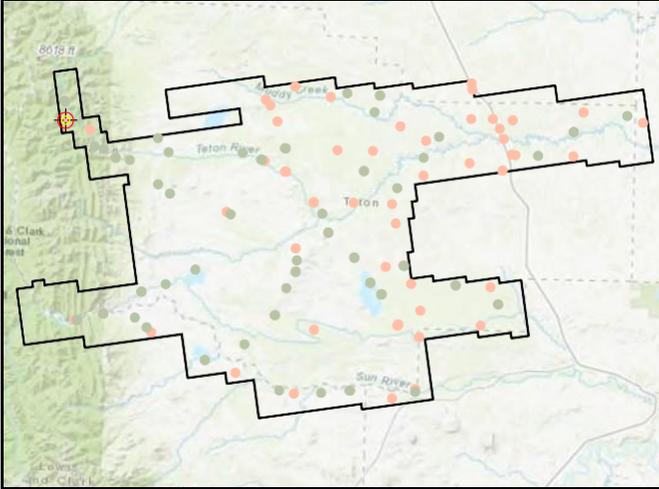


BE008

General	
Name	BE008
Type	NVA
Known Z	1869.35 m
DEM Dz	0.32 cm

Ground (LAS Points)	
Dz	-0.04 cm
Density	28.72 ppsm
Nearest	0.09 m
Slope	4.00°

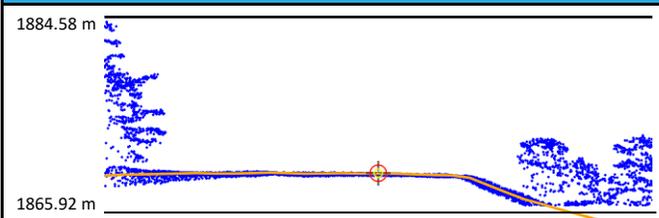
Project Context



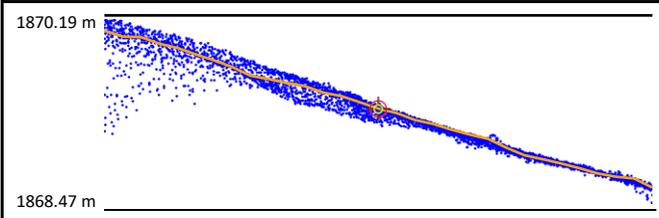
World Imagery



Cross Section - West to East



Cross Section - North to South



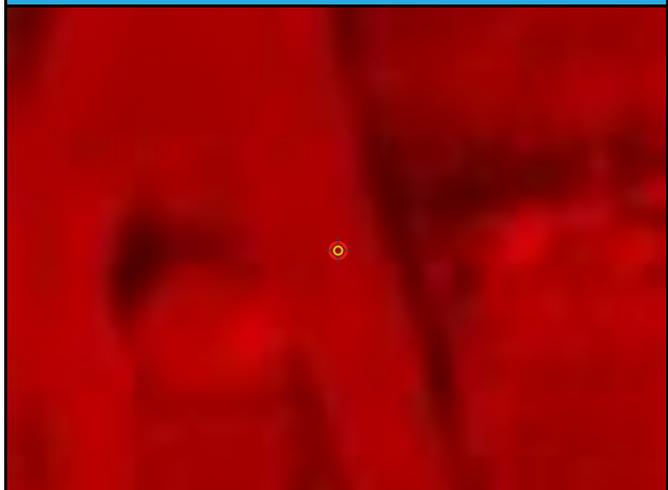
Intensity



LAS Points TIN



DEM

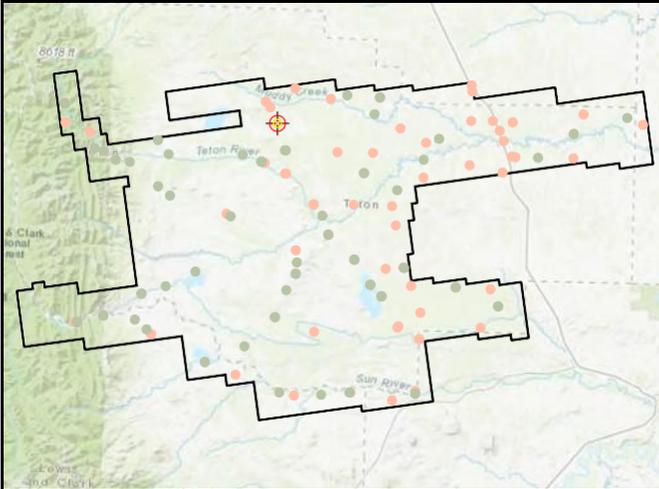


BE009

General	
Name	BE009
Type	NVA
Known Z	1210.07 m
DEM Dz	-1.50 cm

Ground (LAS Points)	
Dz	1.01 cm
Density	19.13 ppsm
Nearest	0.15 m
Slope	3.72°

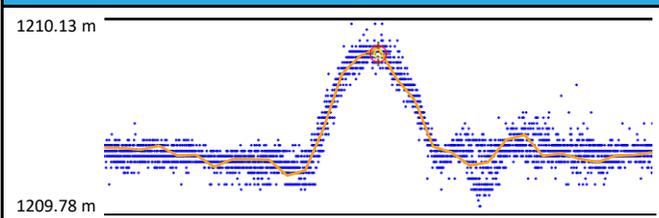
Project Context



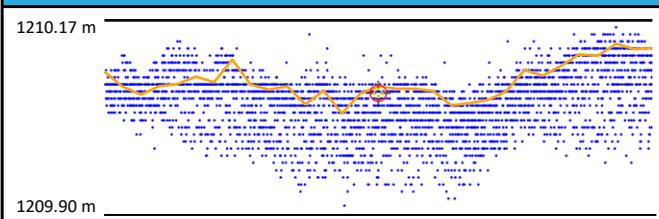
World Imagery



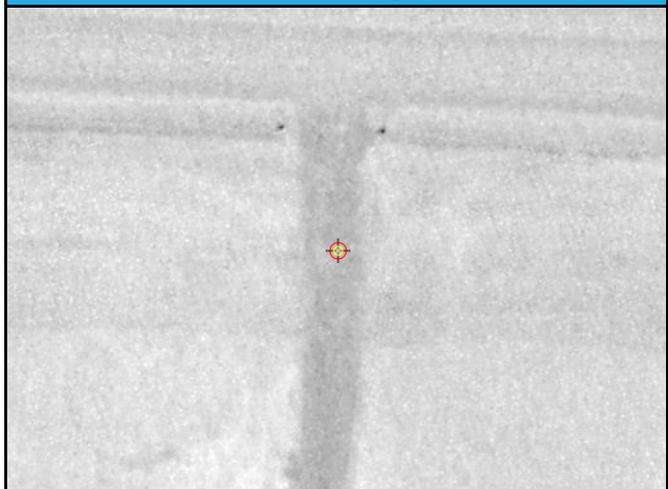
Cross Section - West to East



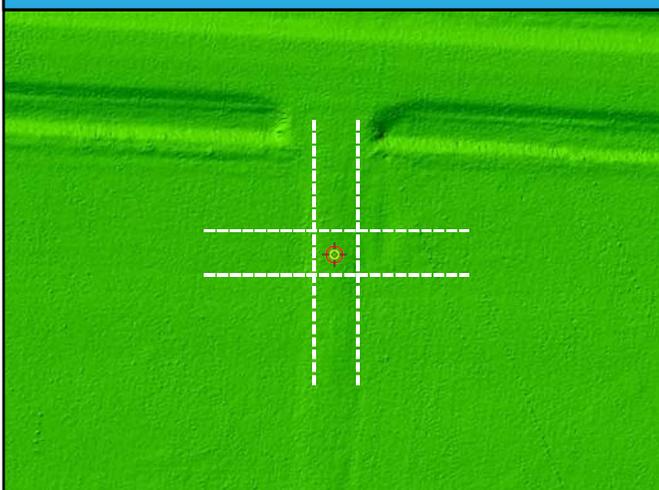
Cross Section - North to South



Intensity



LAS Points TIN



DEM

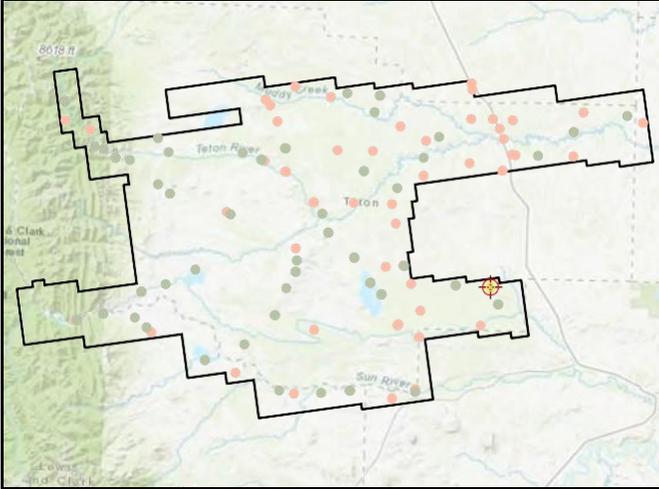


BE010

General	
Name	BE010
Type	NVA
Known Z	1146.29 m
DEM Dz	-0.02 cm

Ground (LAS Points)	
Dz	0.67 cm
Density	2.79 ppsm
Nearest	0.09 m
Slope	3.15°

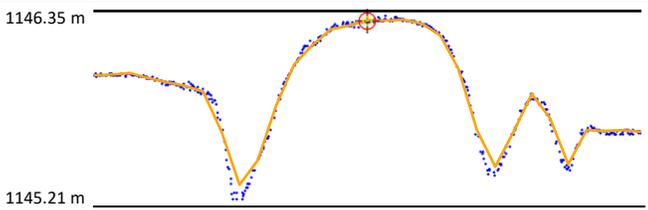
Project Context



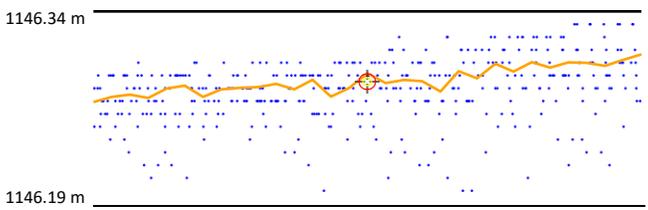
World Imagery



Cross Section - West to East



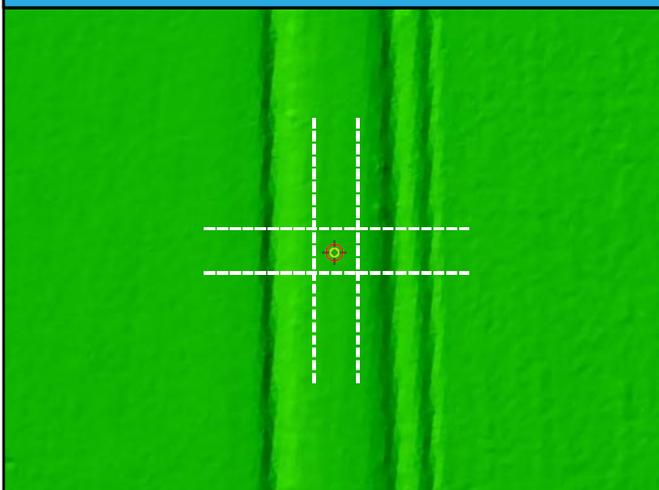
Cross Section - North to South



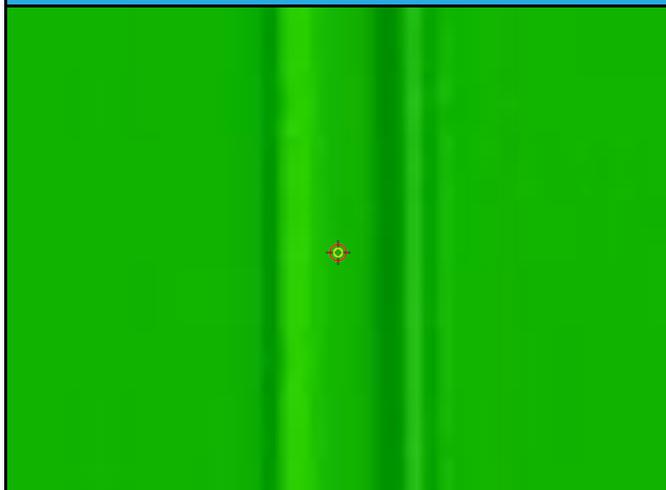
Intensity



LAS Points TIN



DEM

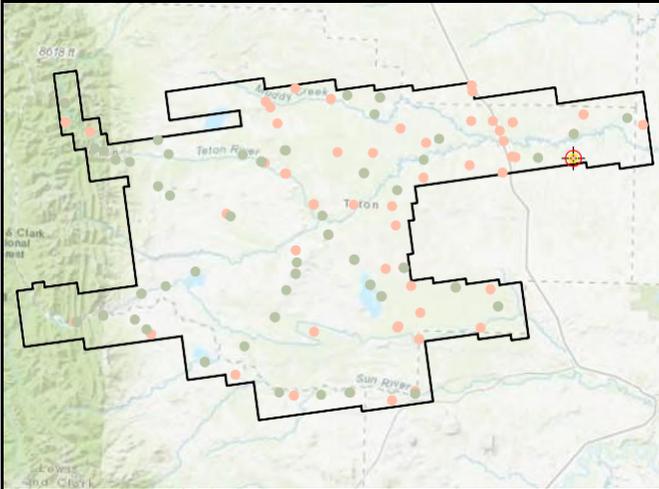


BE011

General	
Name	BE011
Type	NVA
Known Z	1056.10 m
DEM Dz	0.24 cm

Ground (LAS Points)	
Dz	-0.10 cm
Density	12.94 ppsm
Nearest	0.12 m
Slope	2.86°

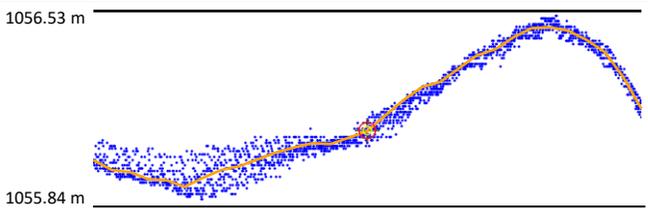
Project Context



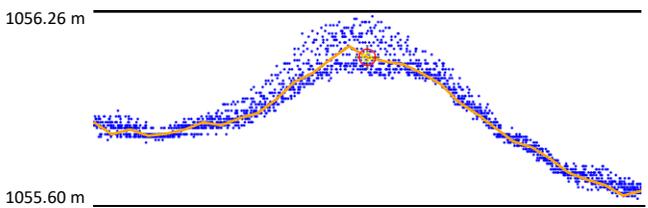
World Imagery



Cross Section - West to East



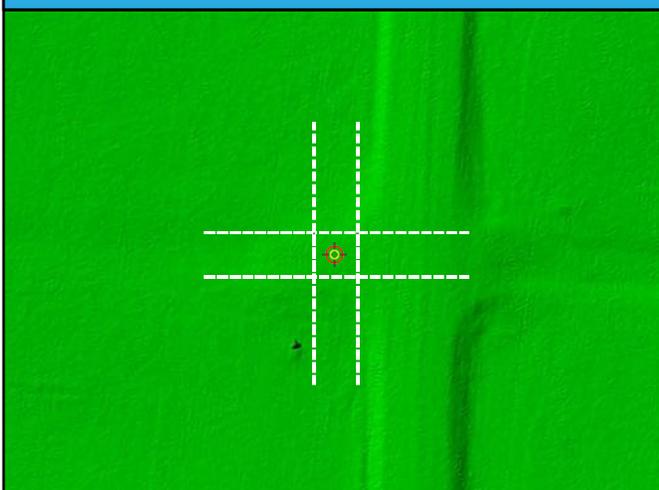
Cross Section - North to South



Intensity



LAS Points TIN



DEM

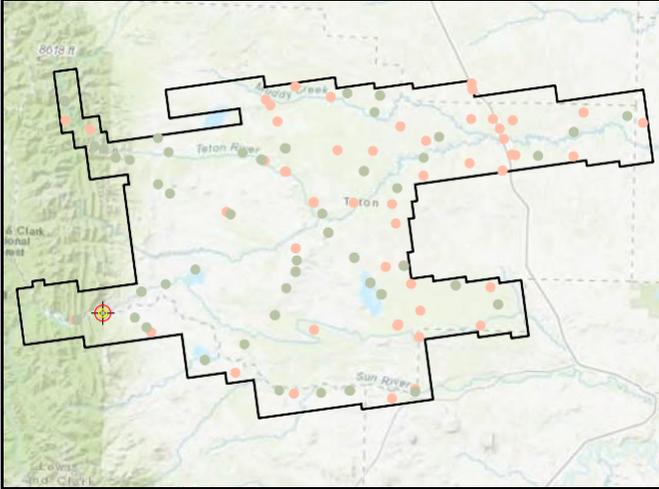


BE012

General	
Name	BE012
Type	NVA
Known Z	1361.54 m
DEM Dz	3.56 cm

Ground (LAS Points)	
Dz	3.90 cm
Density	28.65 ppsm
Nearest	0.03 m
Slope	1.15°

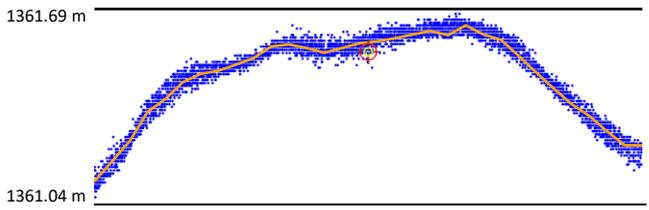
Project Context



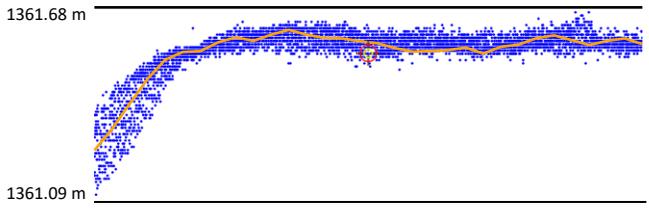
World Imagery



Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

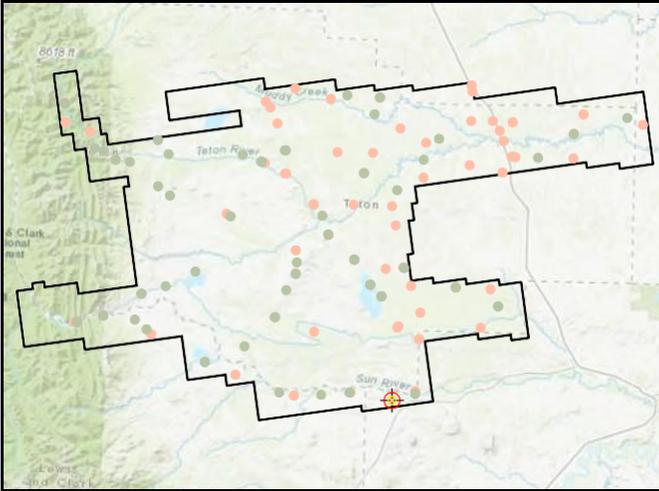


BE013

General	
Name	BE013
Type	NVA
Known Z	1117.13 m
DEM Dz	1.63 cm

Ground (LAS Points)	
Dz	1.53 cm
Density	17.40 ppsm
Nearest	0.19 m
Slope	0.86°

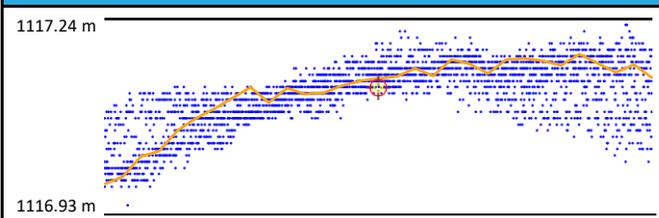
Project Context



World Imagery



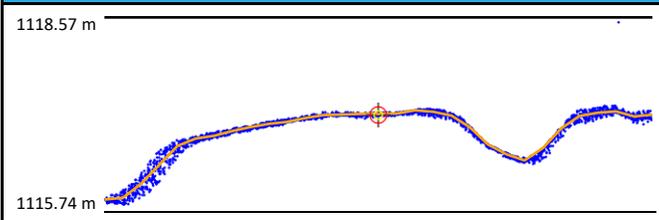
Cross Section - West to East



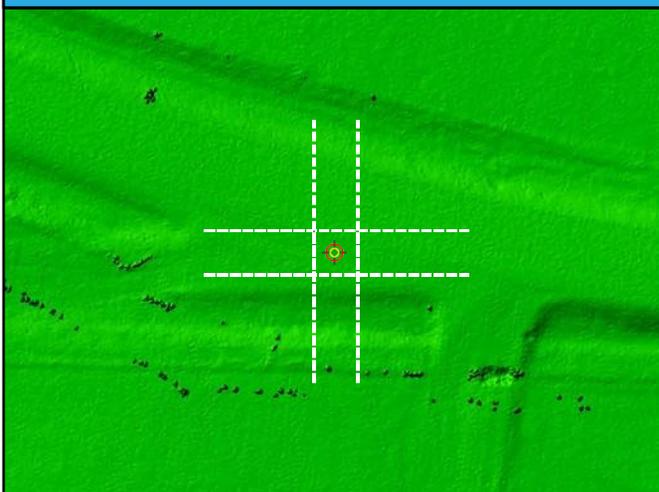
Intensity



Cross Section - North to South



LAS Points TIN



DEM

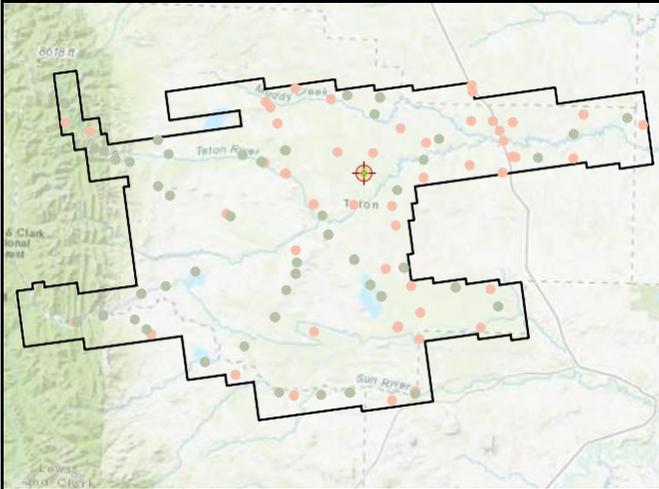


BE014

General	
Name	BE014
Type	NVA
Known Z	1148.55 m
DEM Dz	3.65 cm

Ground (LAS Points)	
Dz	4.12 cm
Density	18.11 ppsm
Nearest	0.13 m
Slope	6.56°

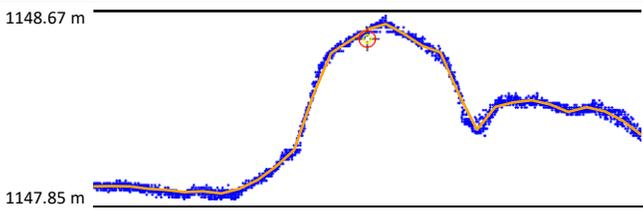
Project Context



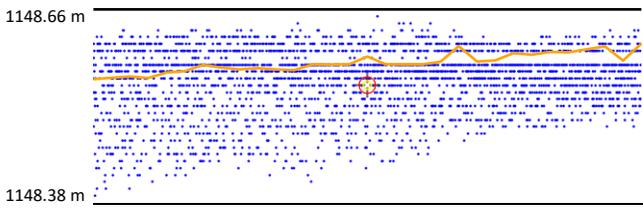
World Imagery



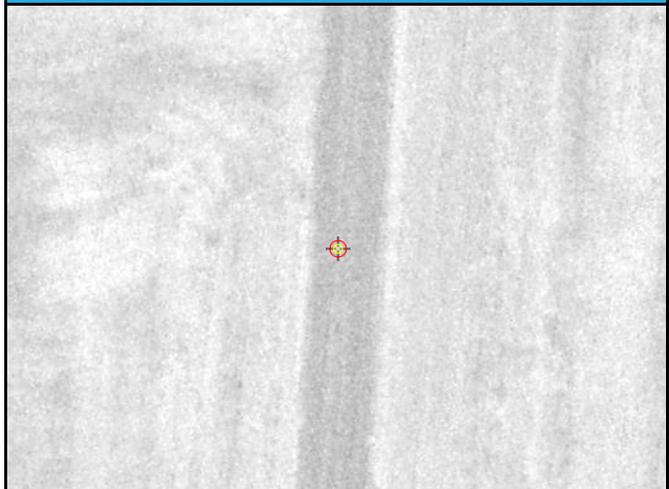
Cross Section - West to East



Cross Section - North to South



Intensity



LAS Points TIN



DEM

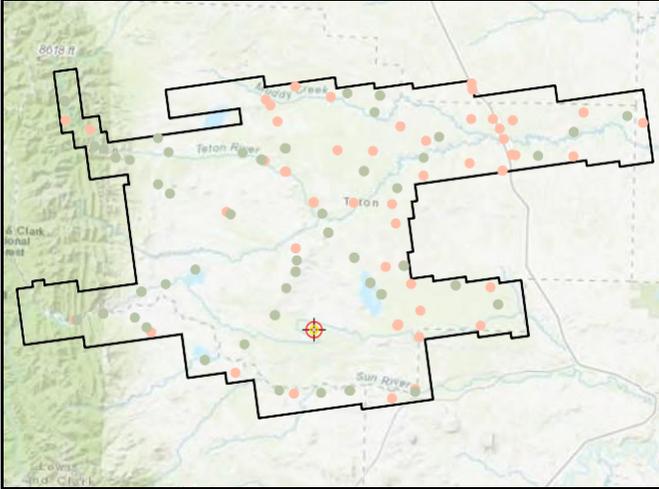


BE015

General	
Name	BE015
Type	NVA
Known Z	1305.81 m
DEM Dz	0.91 cm

Ground (LAS Points)	
Dz	0.96 cm
Density	2.79 ppsm
Nearest	0.14 m
Slope	3.64°

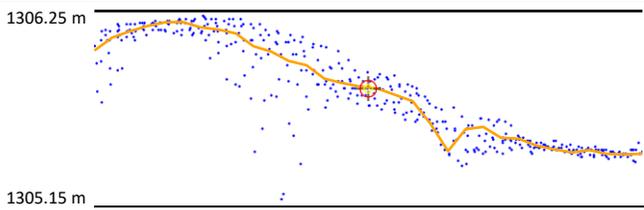
Project Context



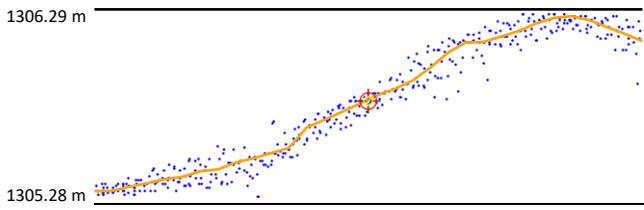
World Imagery



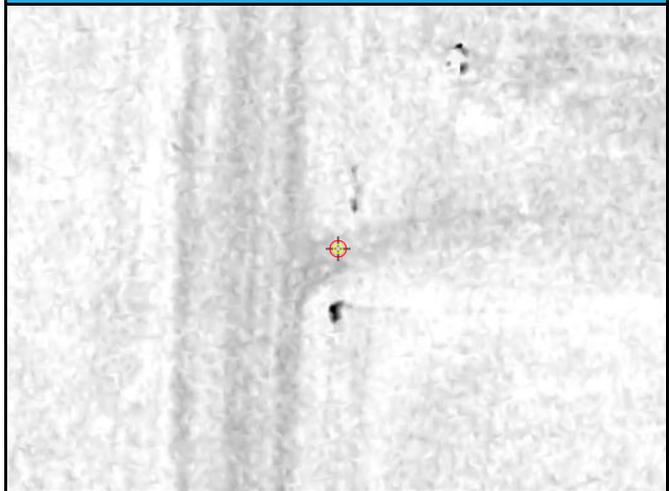
Cross Section - Northwest to Southeast



Cross Section - Northeast to Southwest



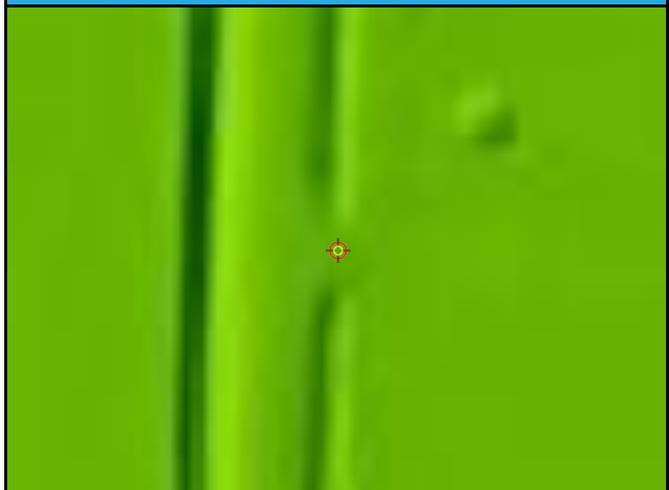
Intensity



LAS Points TIN



DEM

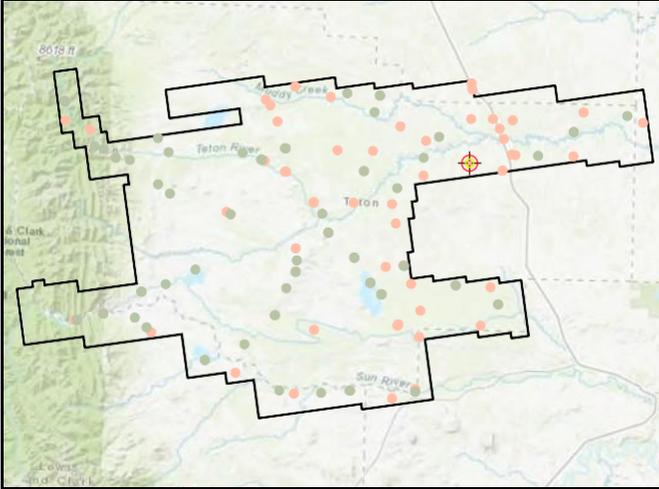


BE016

General	
Name	BE016
Type	NVA
Known Z	1114.20 m
DEM Dz	-1.19 cm

Ground (LAS Points)	
Dz	-1.26 cm
Density	19.52 ppsm
Nearest	0.13 m
Slope	7.25°

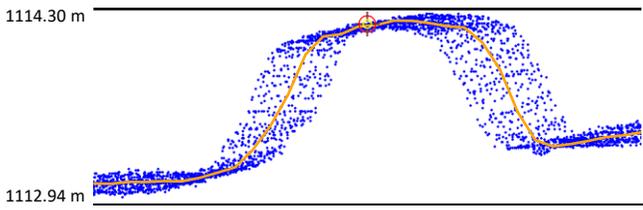
Project Context



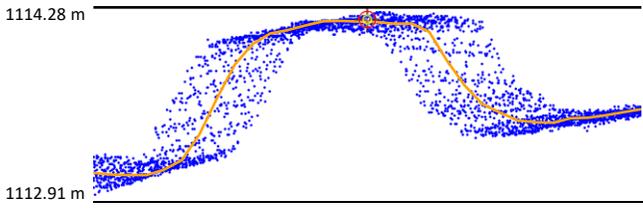
World Imagery



Cross Section - Northwest to Southeast



Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

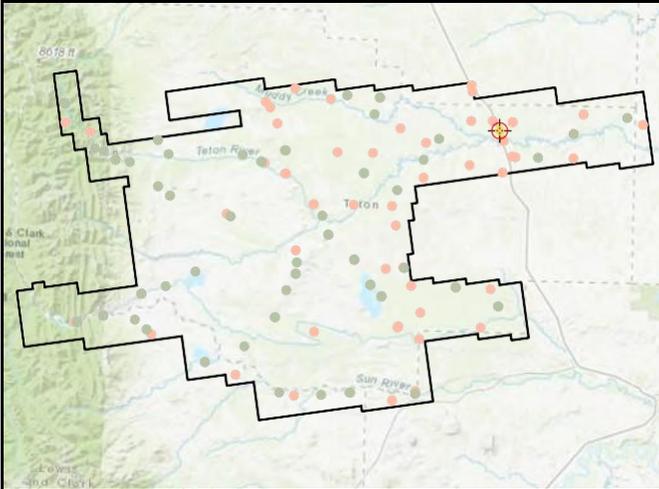


BE017

General	
Name	BE017
Type	NVA
Known Z	1067.61 m
DEM Dz	-0.14 cm

Ground (LAS Points)	
Dz	-1.35 cm
Density	12.38 ppsm
Nearest	0.04 m
Slope	3.15°

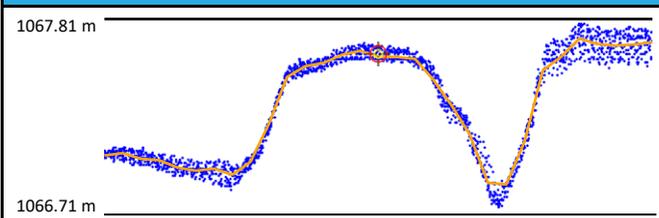
Project Context



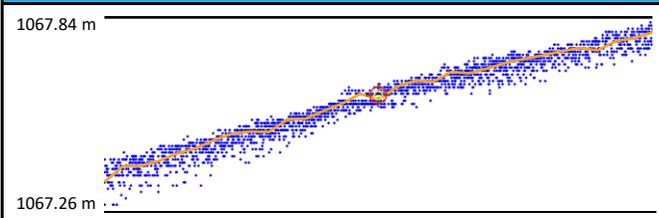
World Imagery



Cross Section - North to South



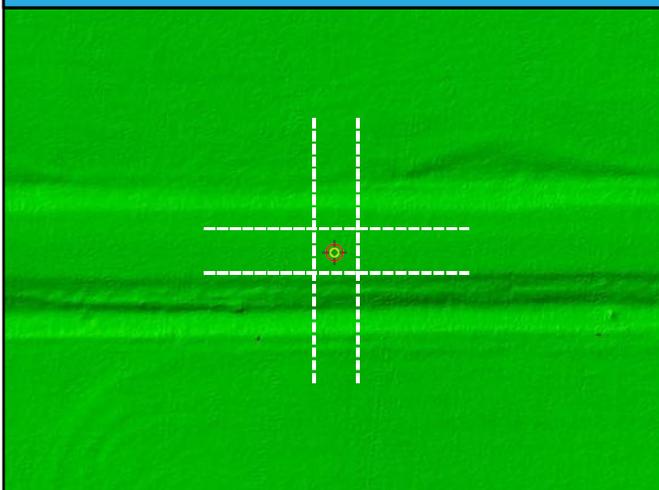
Cross Section - East to West



Intensity



LAS Points TIN



DEM

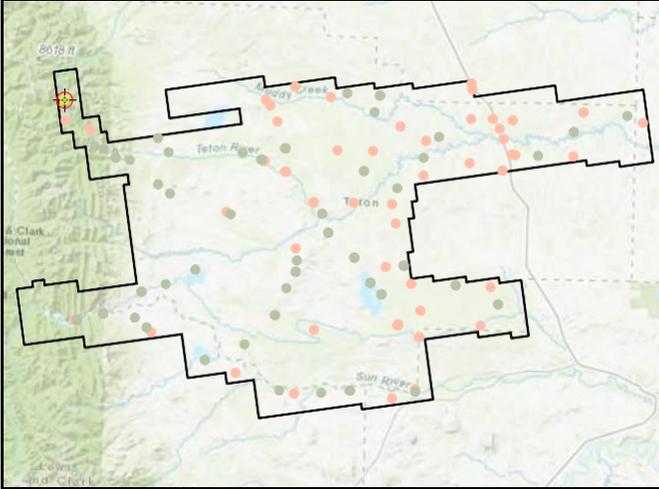


BE018

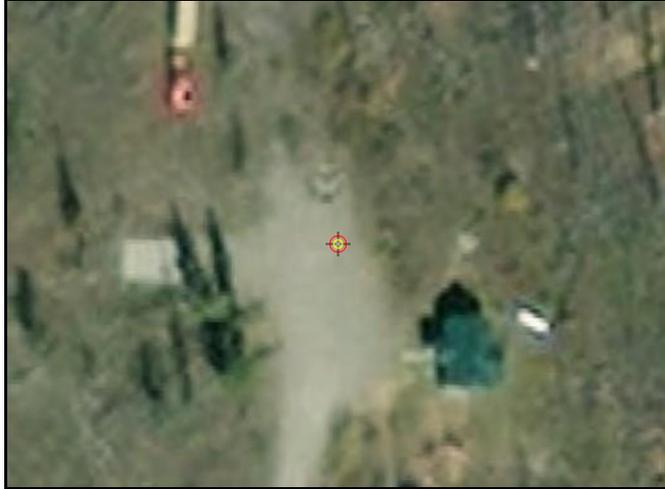
General	
Name	BE018
Type	NVA
Known Z	1717.93 m
DEM Dz	2.19 cm

Ground (LAS Points)	
Dz	1.85 cm
Density	19.81 ppsm
Nearest	0.10 m
Slope	1.62°

Project Context



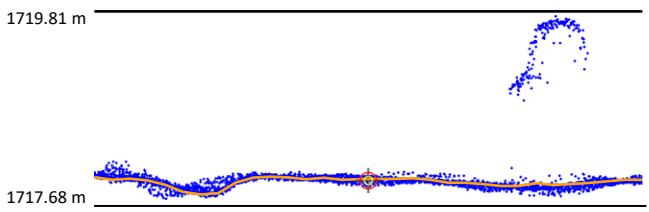
World Imagery



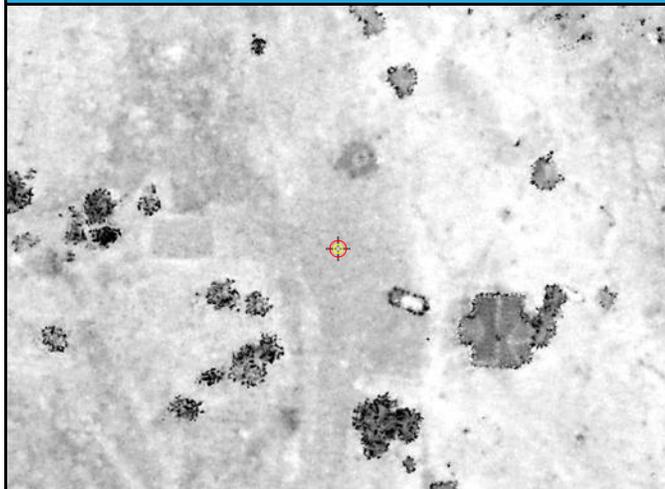
Cross Section - Southwest to Northeast



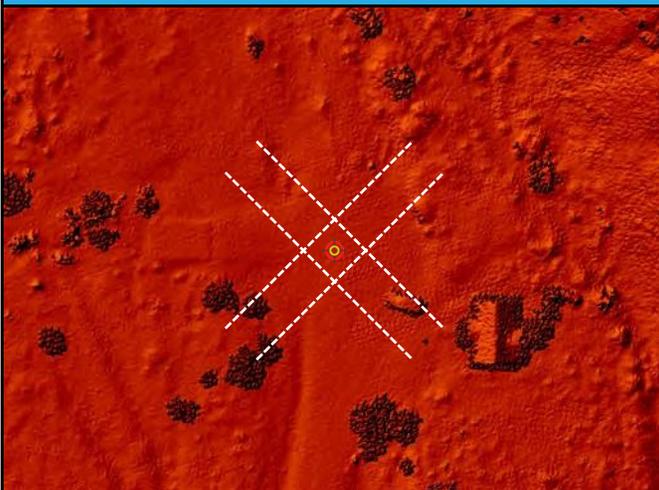
Cross Section - Northwest to Southeast



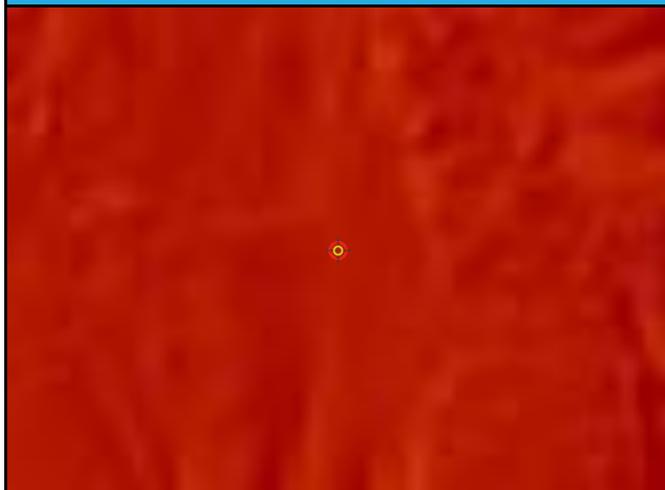
Intensity



LAS Points TIN



DEM

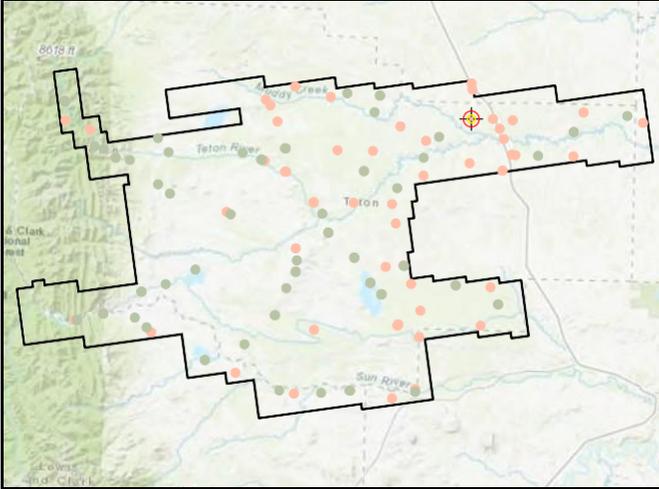


BE019

General	
Name	BE019
Type	NVA
Known Z	1079.99 m
DEM Dz	-0.90 cm

Ground (LAS Points)	
Dz	-0.92 cm
Density	13.30 ppsm
Nearest	0.06 m
Slope	6.84°

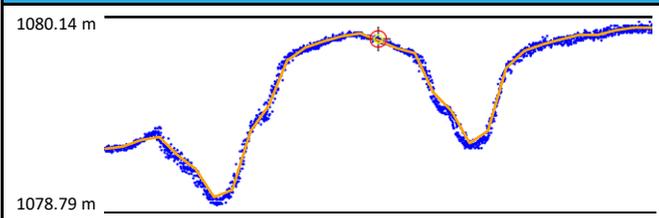
Project Context



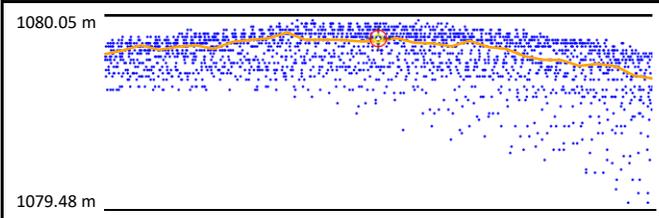
World Imagery



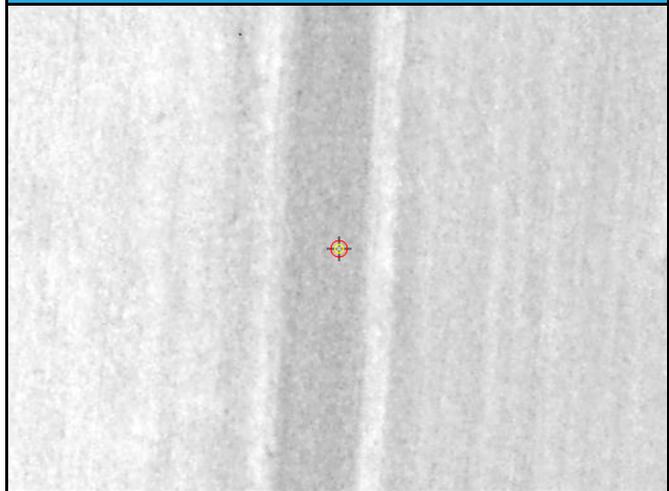
Cross Section - West to East



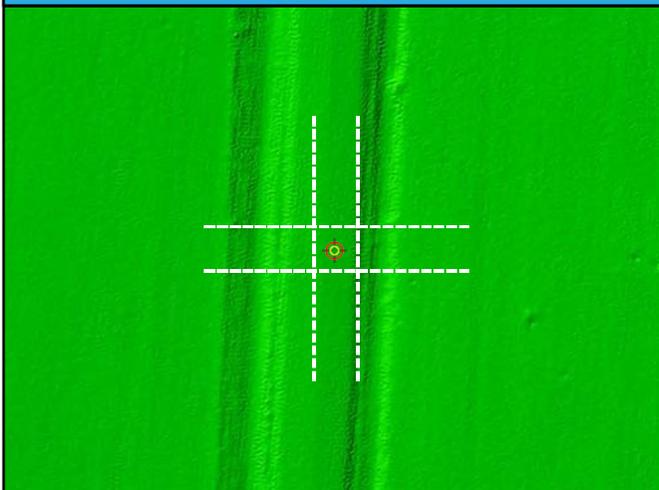
Cross Section - North to South



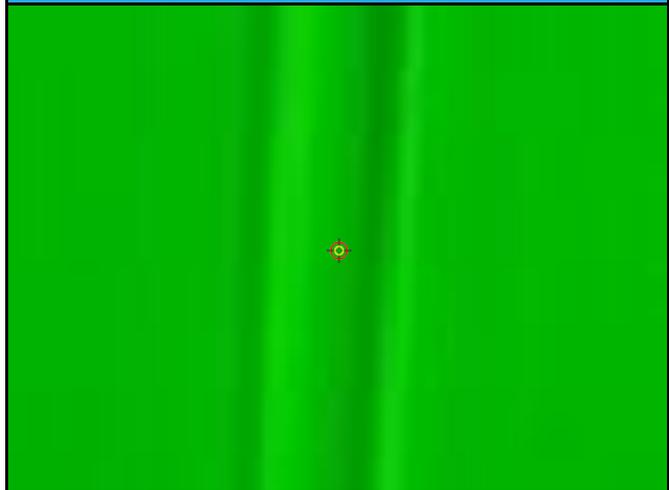
Intensity



LAS Points TIN



DEM

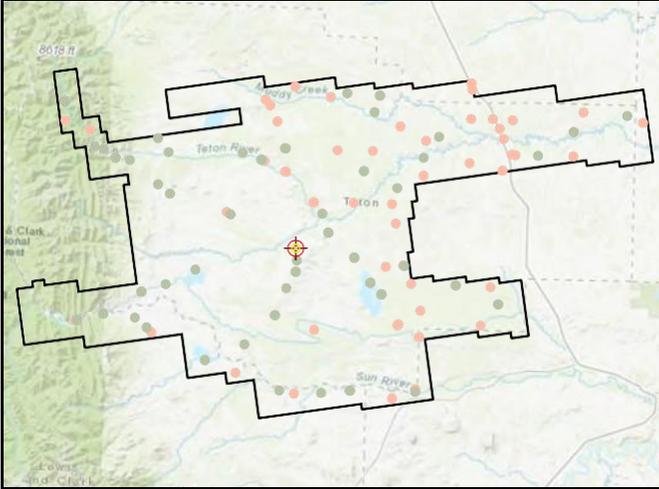


BE020

General	
Name	BE020
Type	NVA
Known Z	1239.74 m
DEM Dz	-1.24 cm

Ground (LAS Points)	
Dz	-0.52 cm
Density	15.77 ppsm
Nearest	0.12 m
Slope	4.29°

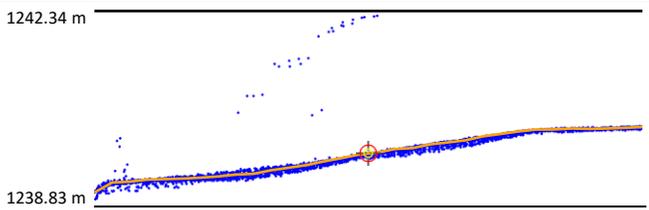
Project Context



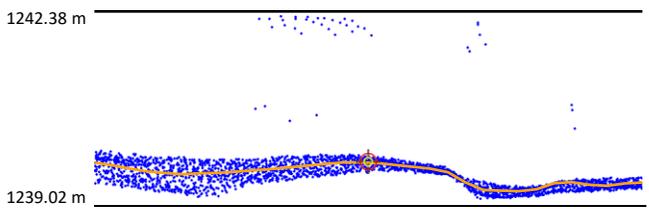
World Imagery



Cross Section - Northwest to Southeast



Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

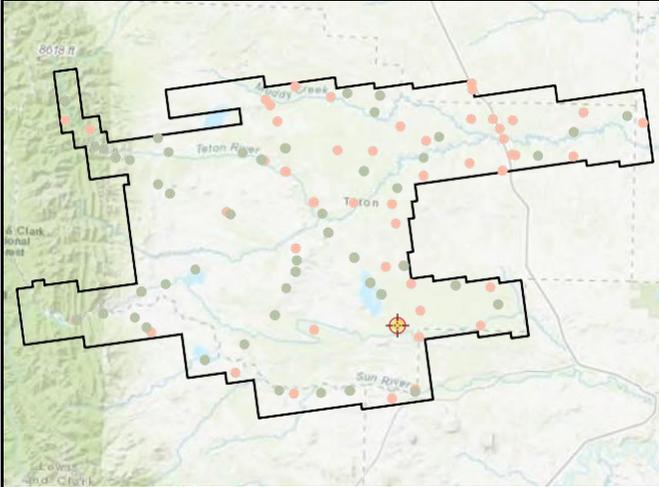


BE021

General	
Name	BE021
Type	NVA
Known Z	1212.92 m
DEM Dz	1.24 cm

Ground (LAS Points)	
Dz	2.28 cm
Density	3.15 ppsm
Nearest	0.30 m
Slope	1.15°

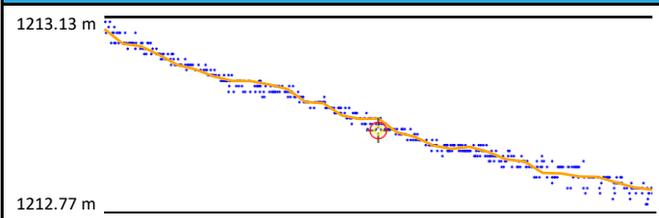
Project Context



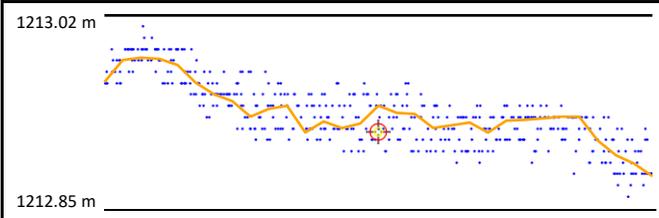
World Imagery



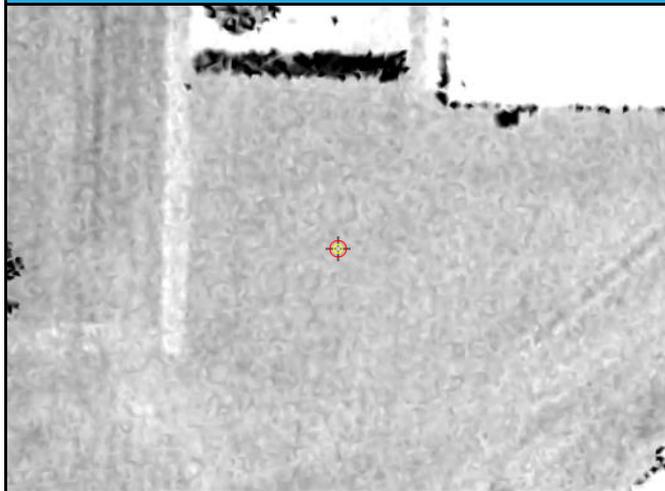
Cross Section - West to East



Cross Section - North to South



Intensity



LAS Points TIN



DEM

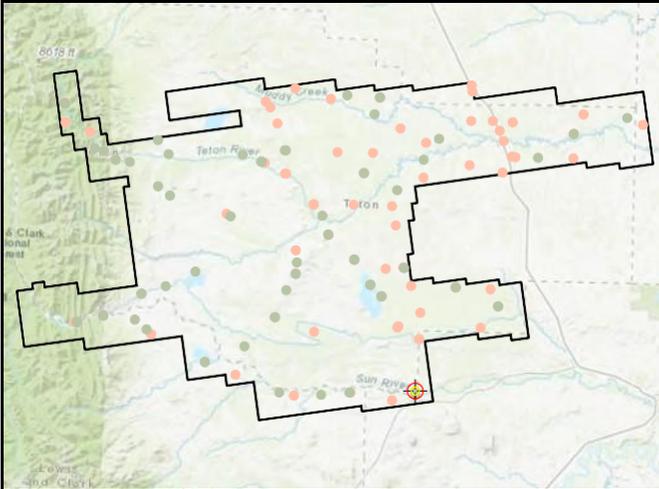


BE022

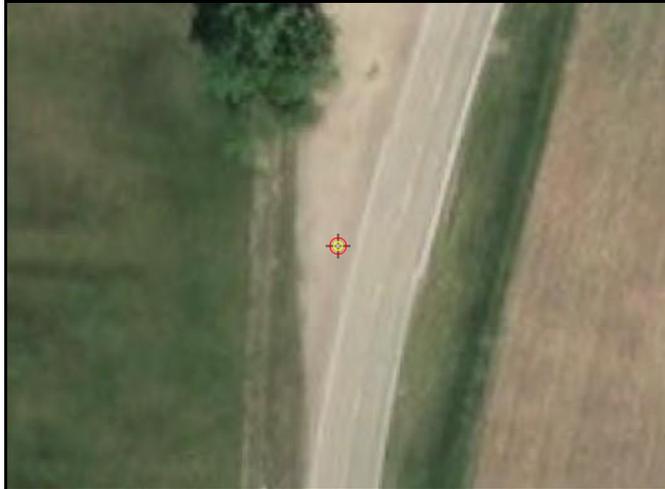
General	
Name	BE022
Type	NVA
Known Z	1096.53 m
DEM Dz	0.70 cm

Ground (LAS Points)	
Dz	1.14 cm
Density	13.12 ppsm
Nearest	0.16 m
Slope	1.72°

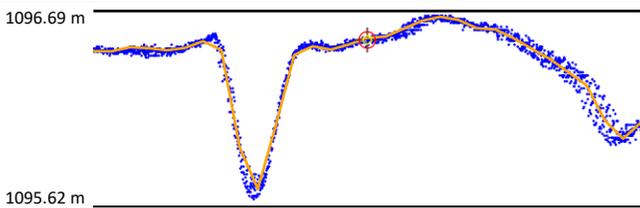
Project Context



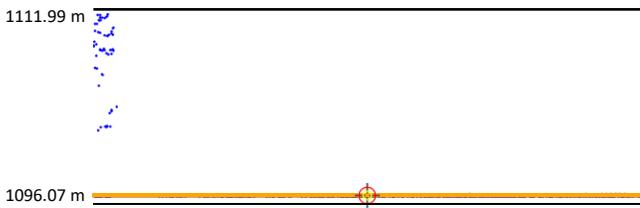
World Imagery



Cross Section - West to East



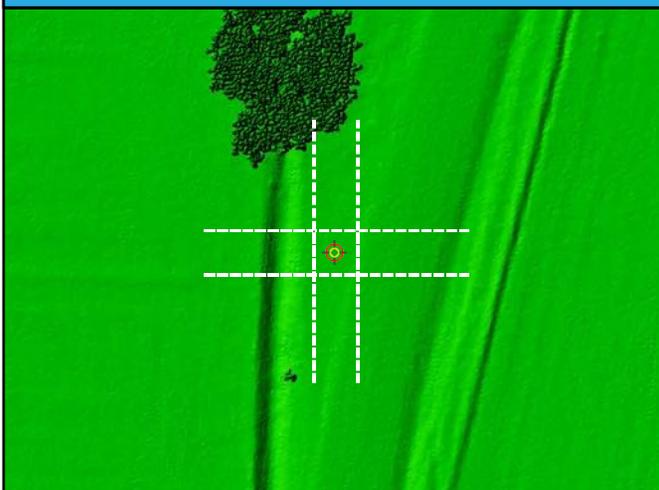
Cross Section - North to South



Intensity



LAS Points TIN



DEM

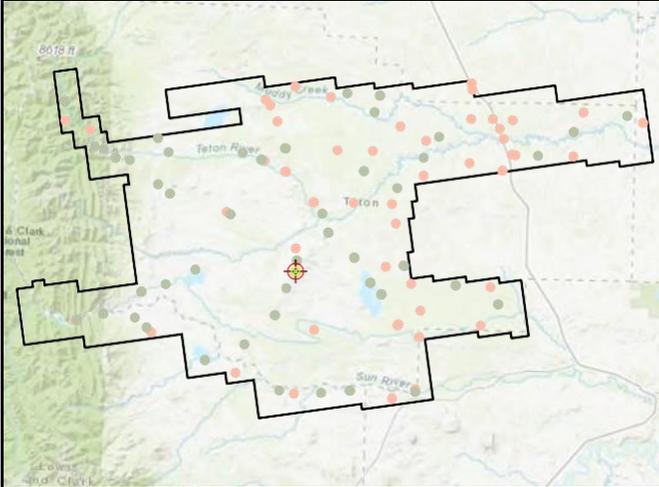


BE023

General	
Name	BE023
Type	NVA
Known Z	1392.55 m
DEM Dz	2.04 cm

Ground (LAS Points)	
Dz	1.61 cm
Density	6.15 ppsm
Nearest	0.16 m
Slope	2.58°

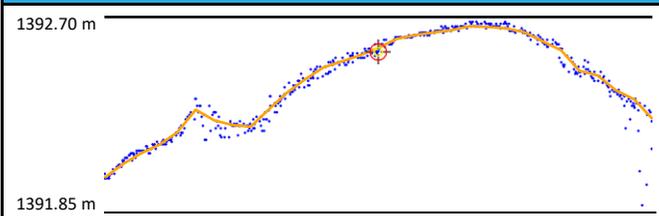
Project Context



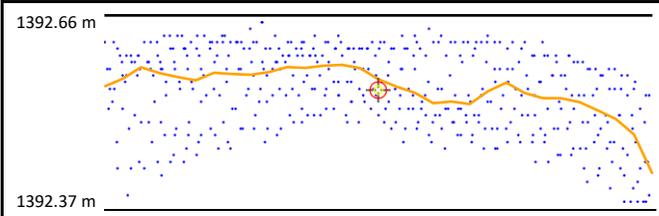
World Imagery



Cross Section - West to East



Cross Section - North to South



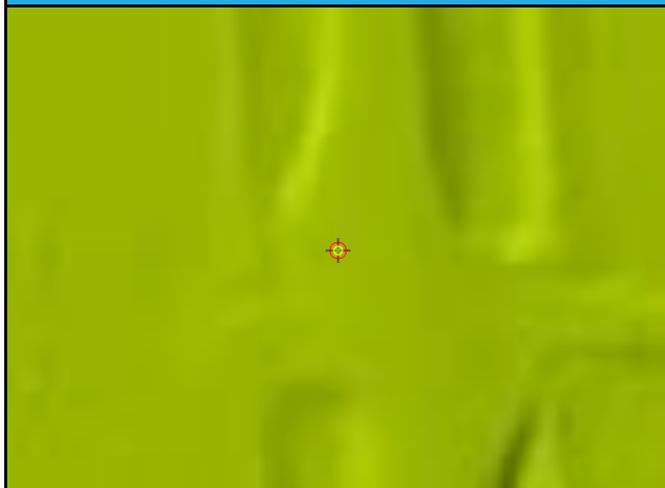
Intensity



LAS Points TIN



DEM

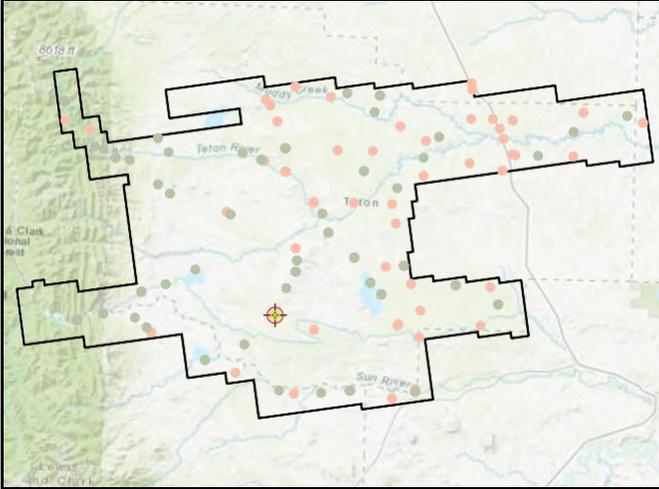


BE024

General	
Name	BE024
Type	NVA
Known Z	1343.67 m
DEM Dz	1.86 cm

Ground (LAS Points)	
Dz	1.74 cm
Density	3.11 ppsm
Nearest	0.38 m
Slope	2.83°

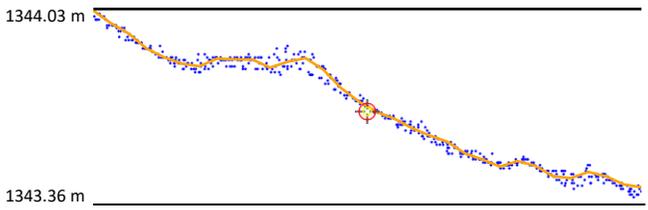
Project Context



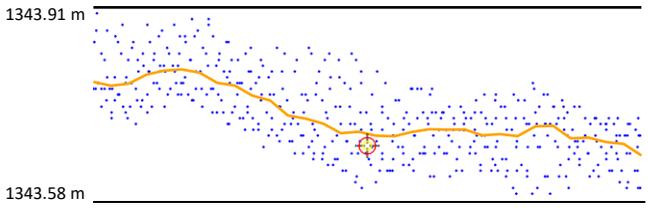
World Imagery



Cross Section - Northwest to Southeast



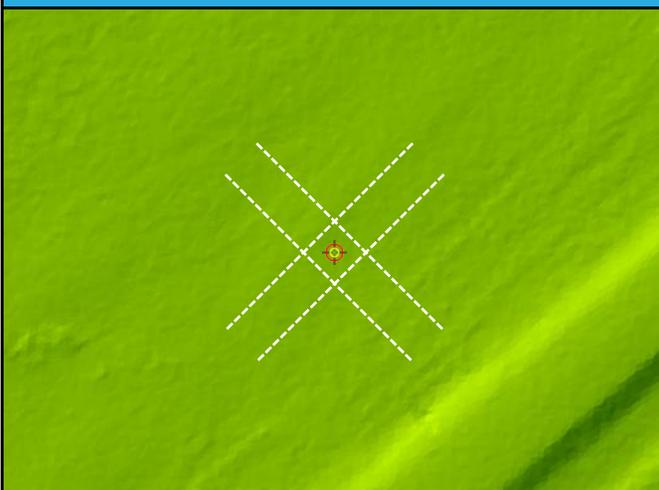
Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

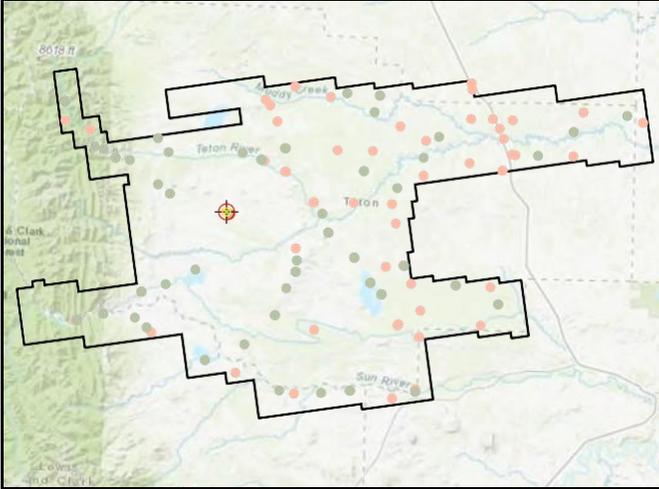


BE025

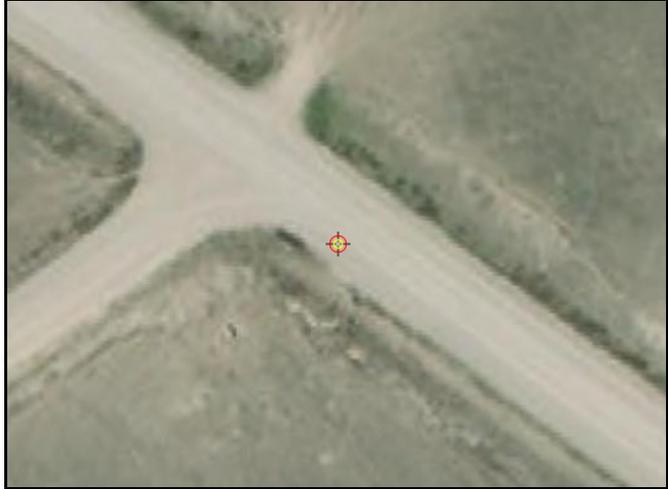
General	
Name	BE025
Type	NVA
Known Z	1298.62 m
DEM Dz	1.70 cm

Ground (LAS Points)	
Dz	1.63 cm
Density	9.97 ppsm
Nearest	0.04 m
Slope	11.98°

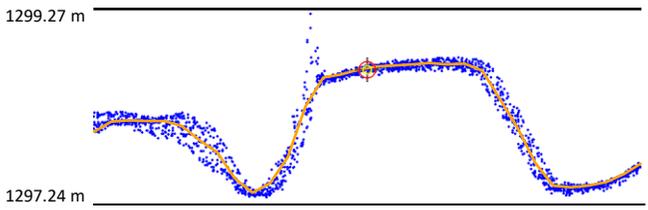
Project Context



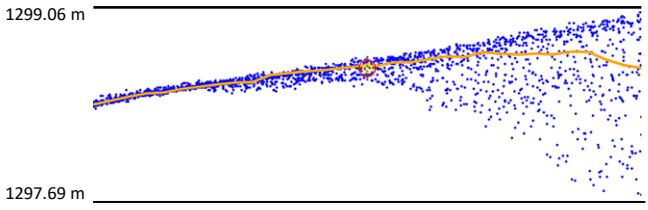
World Imagery



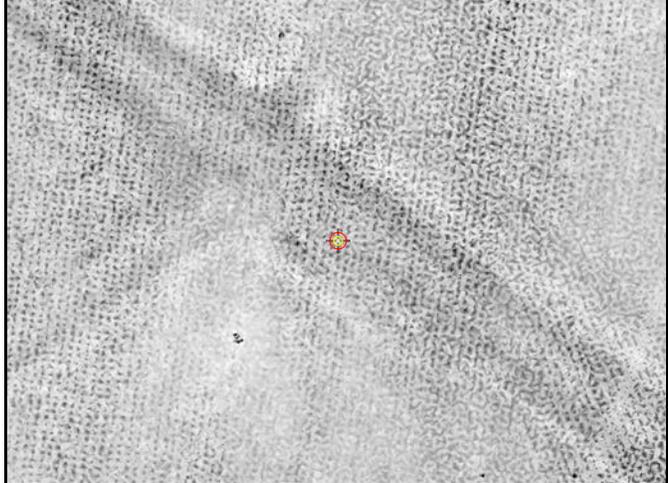
Cross Section - Southwest to Northeast



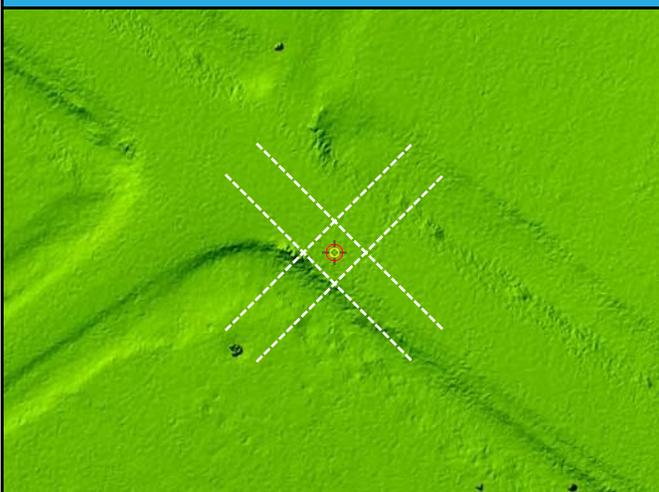
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

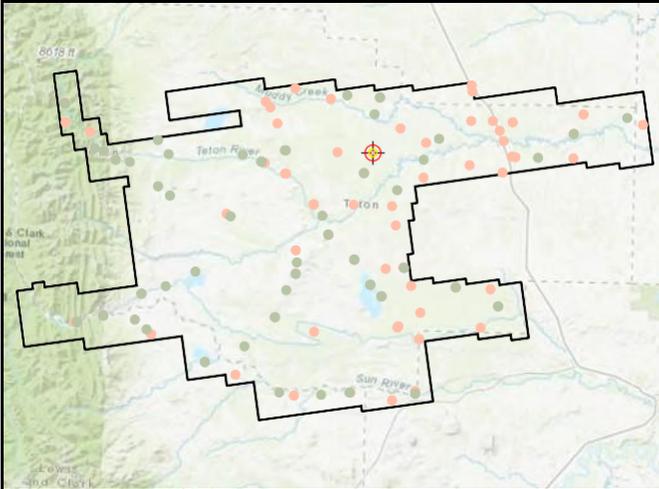


BE026

General	
Name	BE026
Type	NVA
Known Z	1147.68 m
DEM Dz	1.75 cm

Ground (LAS Points)	
Dz	1.66 cm
Density	17.61 ppsm
Nearest	0.12 m
Slope	4.65°

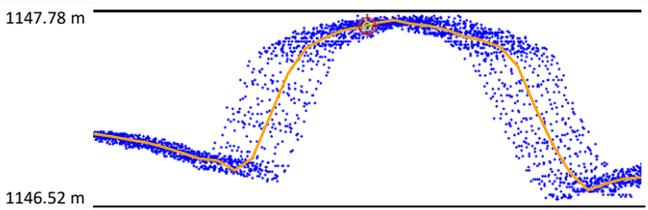
Project Context



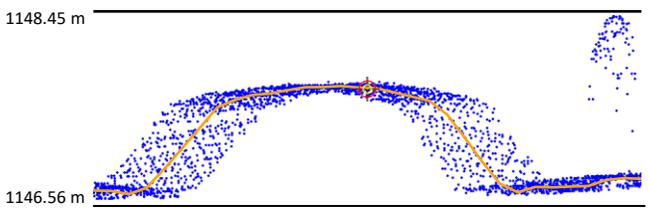
World Imagery



Cross Section - Northwest to Southeast



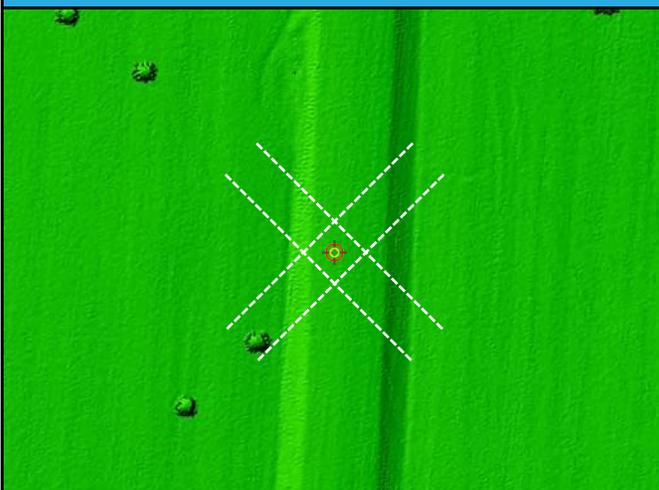
Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

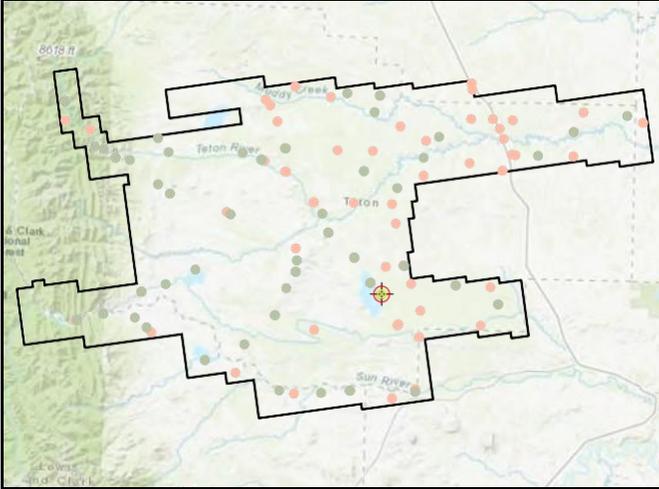


BE027

General	
Name	BE027
Type	NVA
Known Z	1153.32 m
DEM Dz	-0.67 cm

Ground (LAS Points)	
Dz	-0.39 cm
Density	2.65 ppsm
Nearest	0.44 m
Slope	2.00°

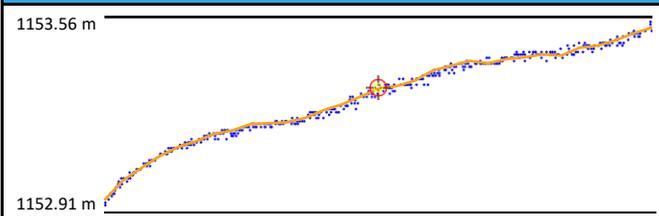
Project Context



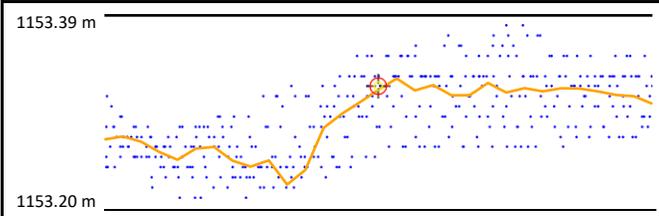
World Imagery



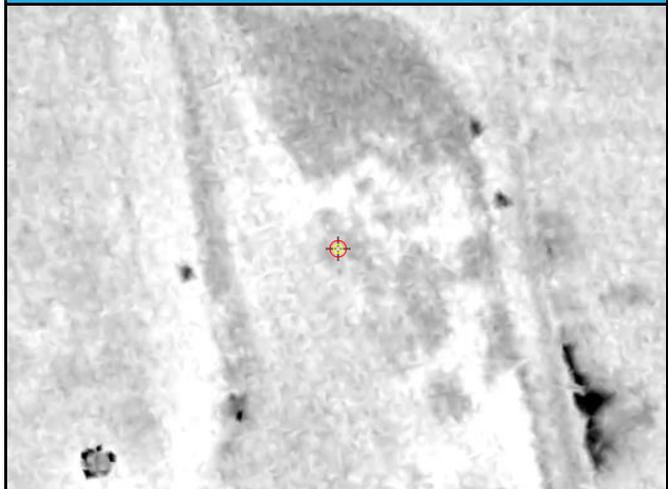
Cross Section - West to East



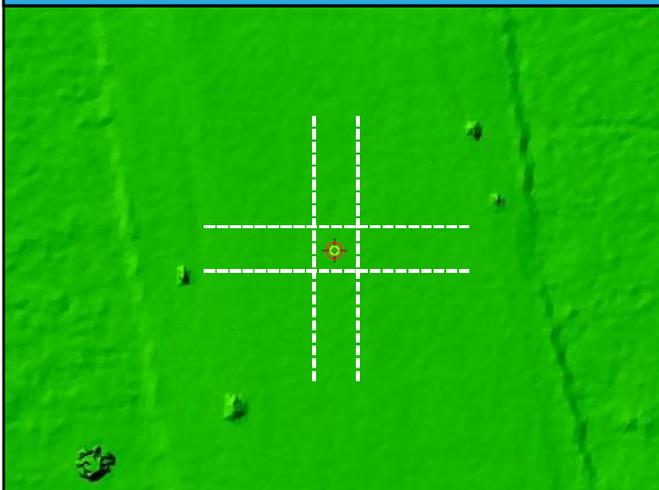
Cross Section - North to South



Intensity



LAS Points TIN



DEM

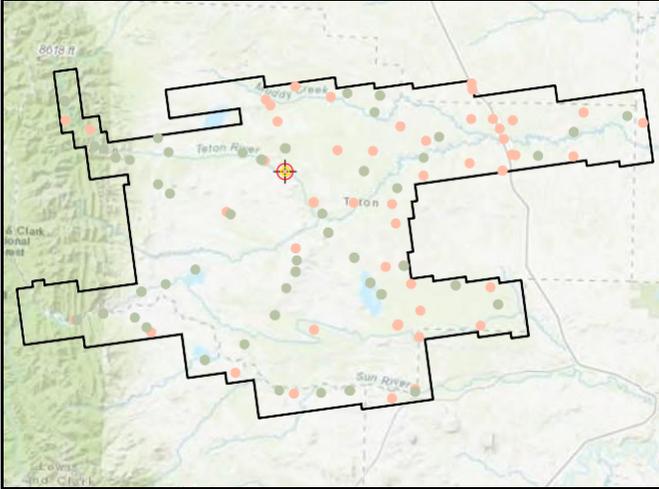


BE028

General	
Name	BE028
Type	NVA
Known Z	1218.19 m
DEM Dz	-1.24 cm

Ground (LAS Points)	
Dz	0.59 cm
Density	23.77 ppsm
Nearest	0.13 m
Slope	1.62°

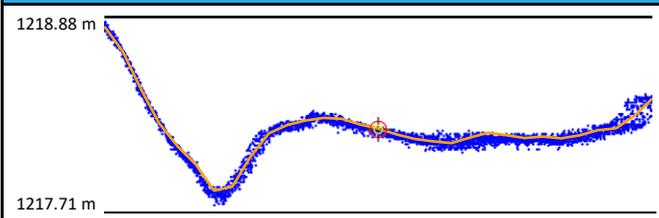
Project Context



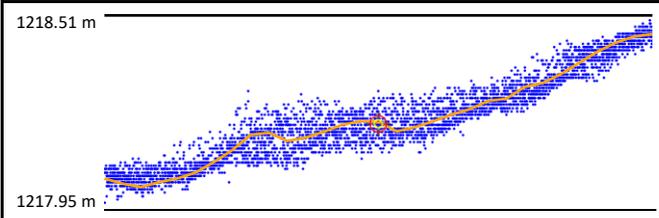
World Imagery



Cross Section - North to South



Cross Section - East to West



Intensity



LAS Points TIN



DEM

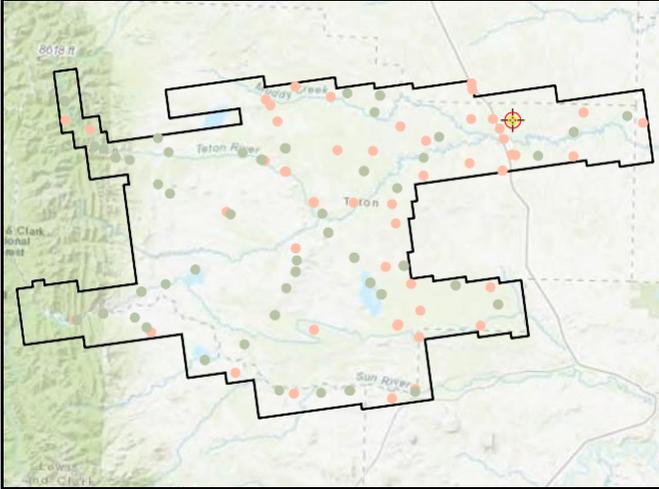


BE029

General	
Name	BE029
Type	NVA
Known Z	1060.79 m
DEM Dz	-0.29 cm

Ground (LAS Points)	
Dz	0.52 cm
Density	18.39 ppsm
Nearest	0.06 m
Slope	6.56°

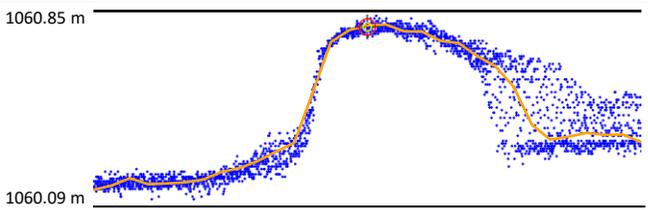
Project Context



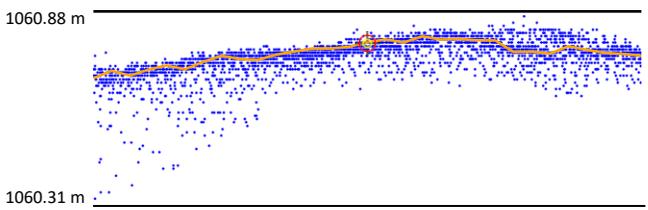
World Imagery



Cross Section - West to East



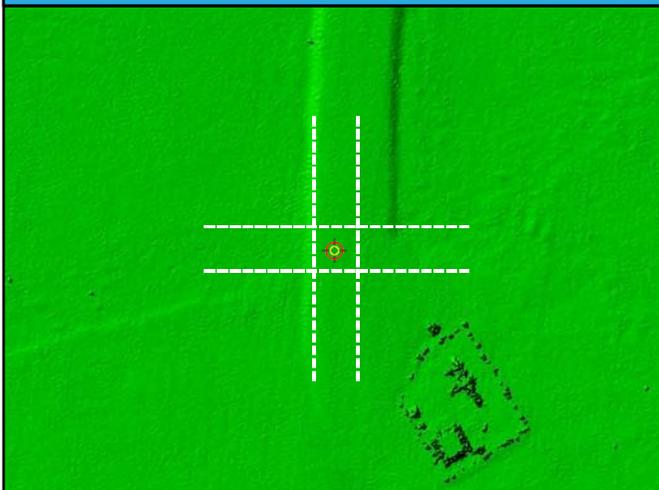
Cross Section - North to South



Intensity



LAS Points TIN



DEM

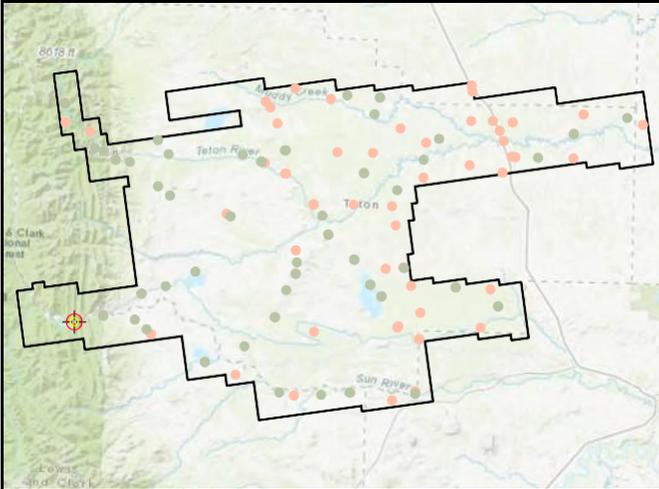


BE030

General	
Name	BE030
Type	NVA
Known Z	1542.23 m
DEM Dz	-1.25 cm

Ground (LAS Points)	
Dz	-0.22 cm
Density	18.32 ppsm
Nearest	0.25 m
Slope	1.01°

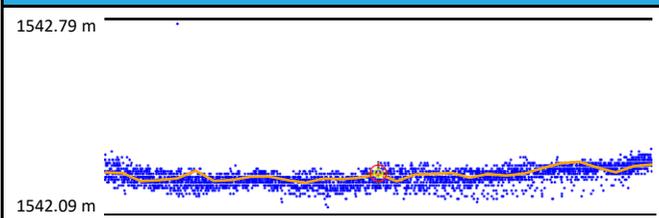
Project Context



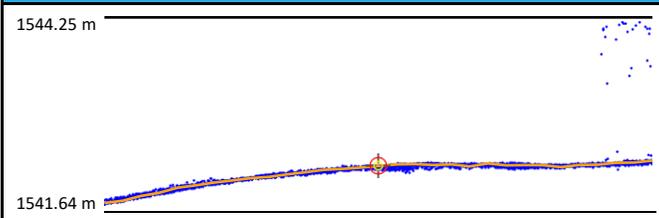
World Imagery



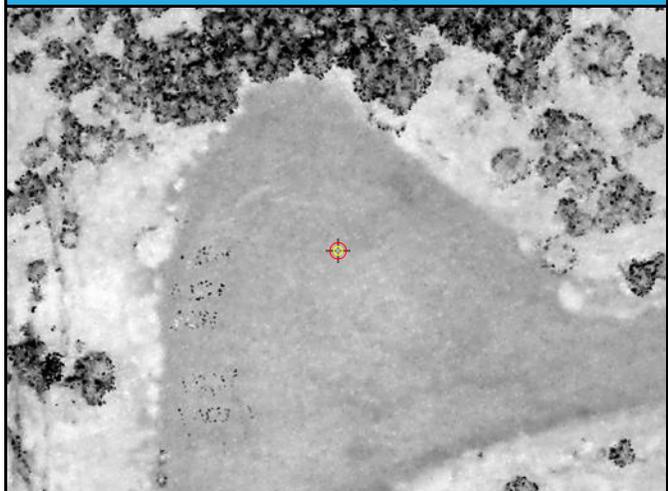
Cross Section - North to South



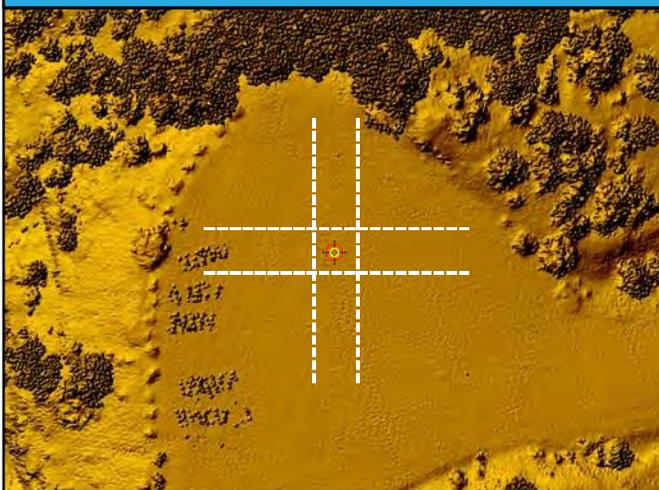
Cross Section - East to West



Intensity



LAS Points TIN



DEM

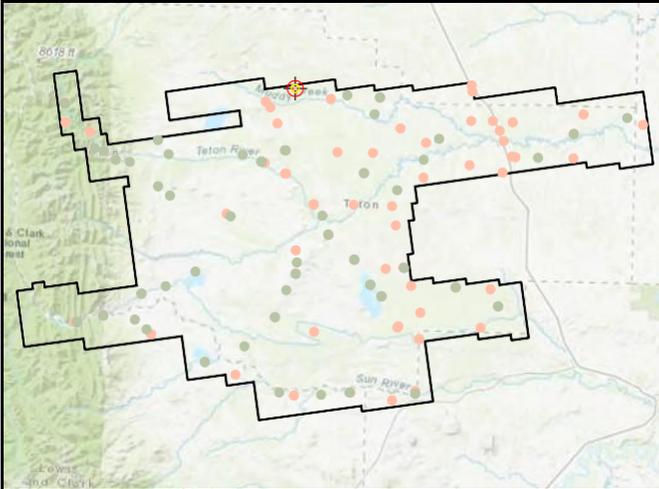


BE031

General	
Name	BE031
Type	NVA
Known Z	1184.52 m
DEM Dz	-7.36 cm

Ground (LAS Points)	
Dz	-6.41 cm
Density	13.33 ppsm
Nearest	0.17 m
Slope	2.58°

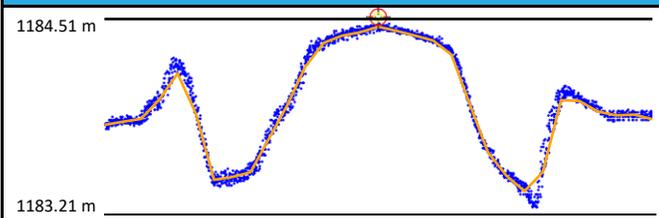
Project Context



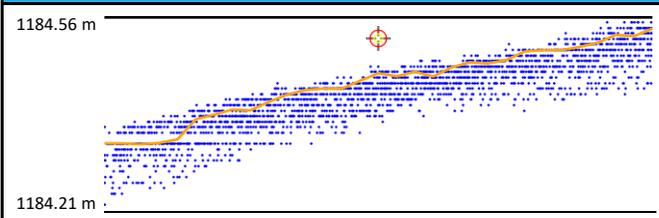
World Imagery



Cross Section - North to South



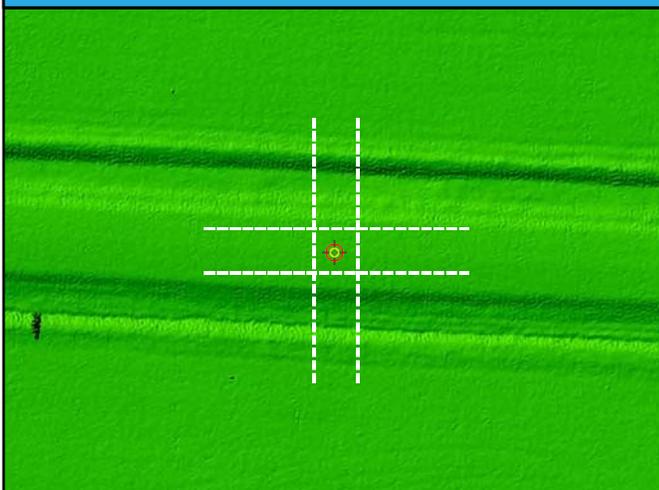
Cross Section - East to West



Intensity



LAS Points TIN



DEM

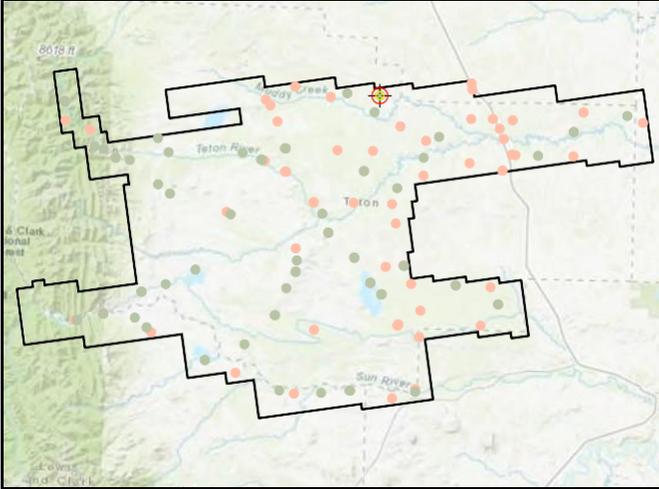


BE032

General	
Name	BE032
Type	NVA
Known Z	1146.42 m
DEM Dz	-1.86 cm

Ground (LAS Points)	
Dz	-2.32 cm
Density	11.95 ppsm
Nearest	0.15 m
Slope	4.86°

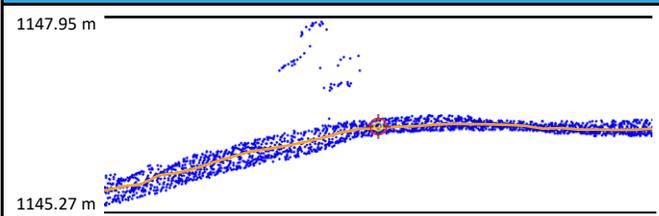
Project Context



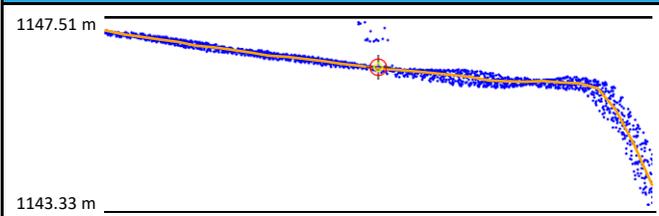
World Imagery



Cross Section - West to East



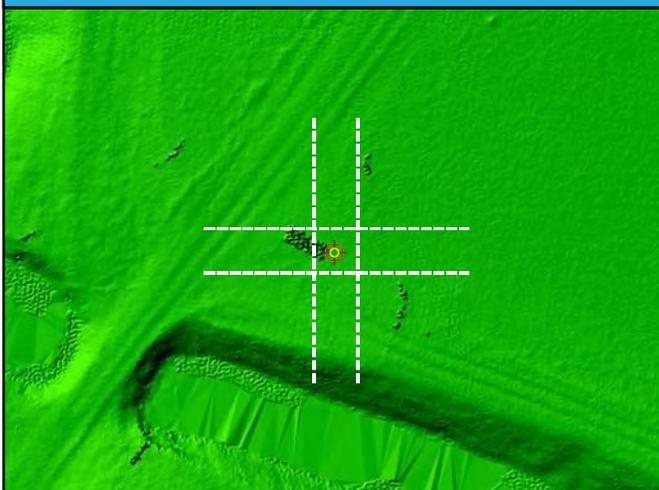
Cross Section - North to South



Intensity



LAS Points TIN



DEM

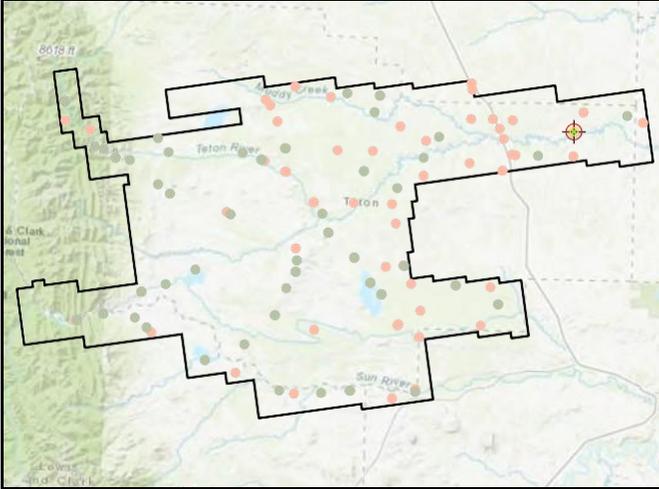


BE033

General	
Name	BE033
Type	NVA
Known Z	1021.54 m
DEM Dz	1.93 cm

Ground (LAS Points)	
Dz	0.33 cm
Density	13.09 ppsm
Nearest	0.17 m
Slope	1.15°

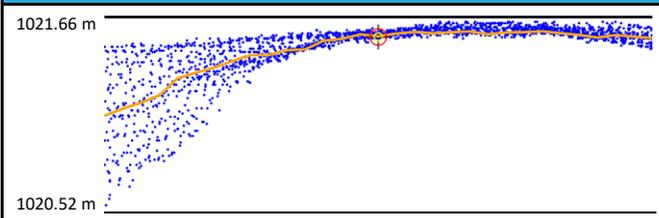
Project Context



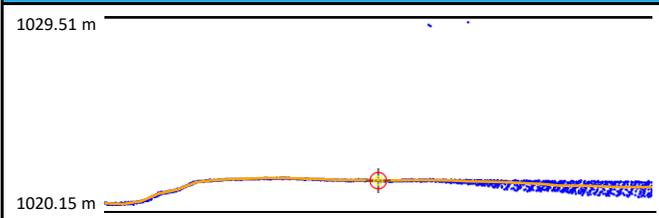
World Imagery



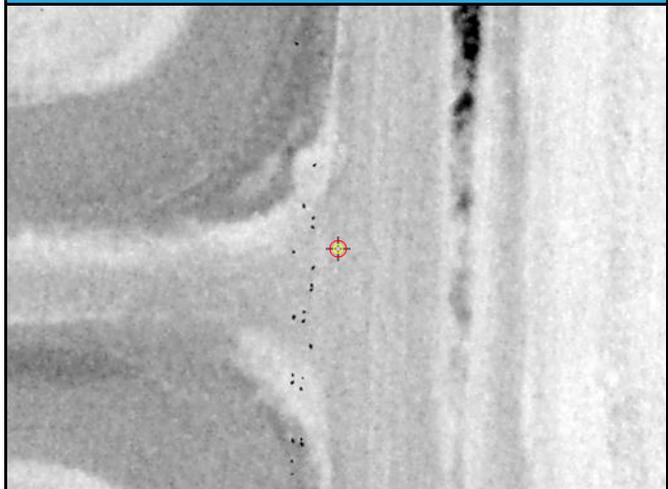
Cross Section - North to South



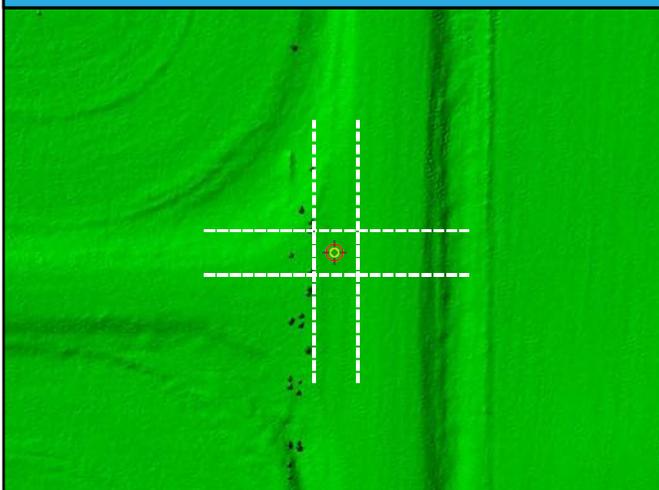
Cross Section - East to West



Intensity



LAS Points TIN



DEM

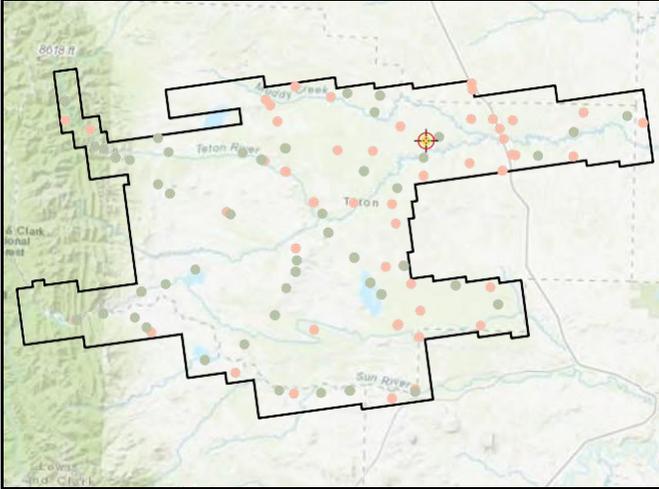


BE034

General	
Name	BE034
Type	NVA
Known Z	1121.78 m
DEM Dz	-1.15 cm

Ground (LAS Points)	
Dz	-2.03 cm
Density	11.74 ppsm
Nearest	0.16 m
Slope	7.41°

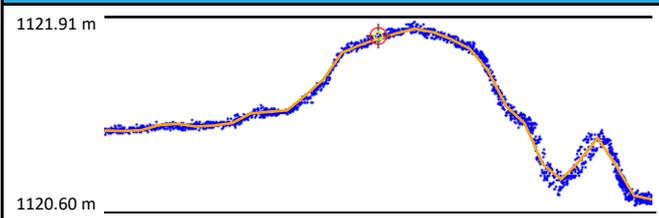
Project Context



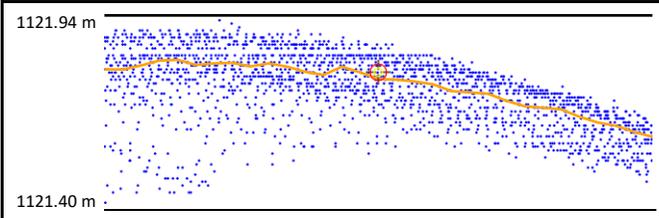
World Imagery



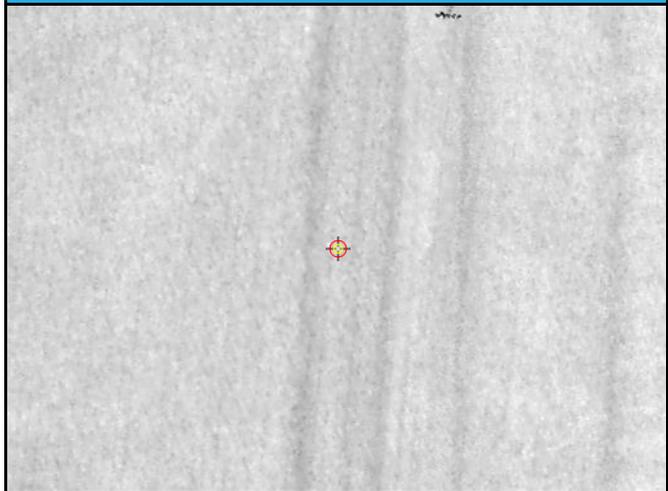
Cross Section - West to East



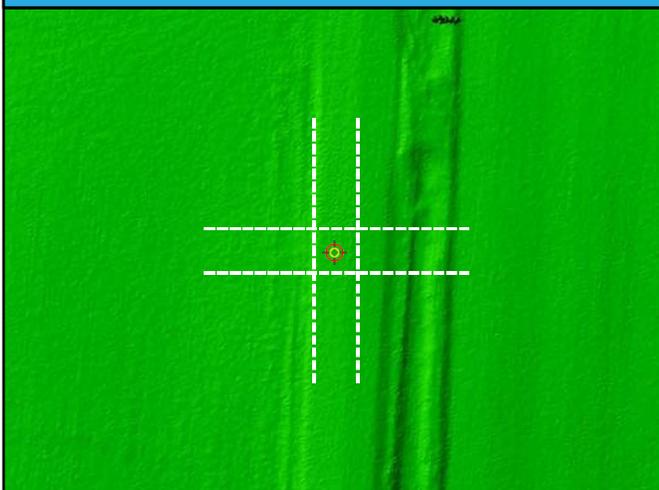
Cross Section - North to South



Intensity



LAS Points TIN



DEM

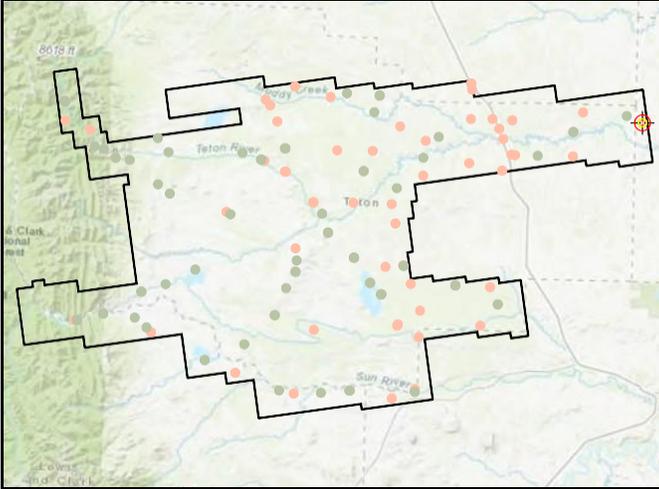


BE035

General	
Name	BE035
Type	NVA
Known Z	1011.64 m
DEM Dz	-0.16 cm

Ground (LAS Points)	
Dz	-0.51 cm
Density	13.90 ppsm
Nearest	0.07 m
Slope	2.86°

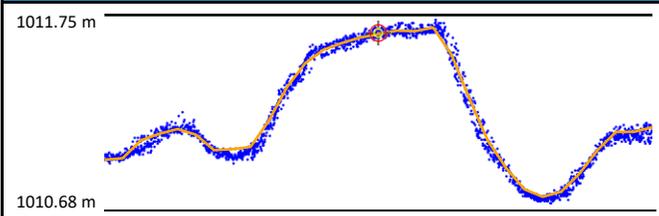
Project Context



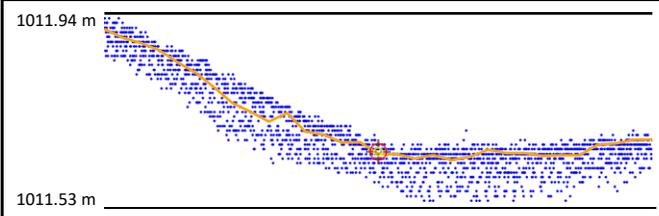
World Imagery



Cross Section - West to East



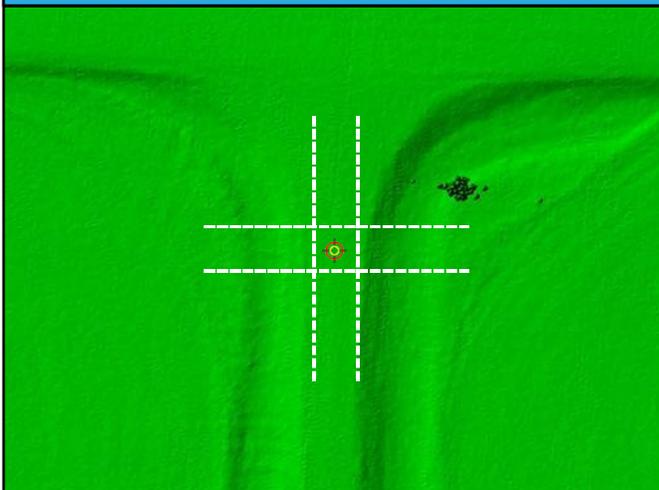
Cross Section - North to South



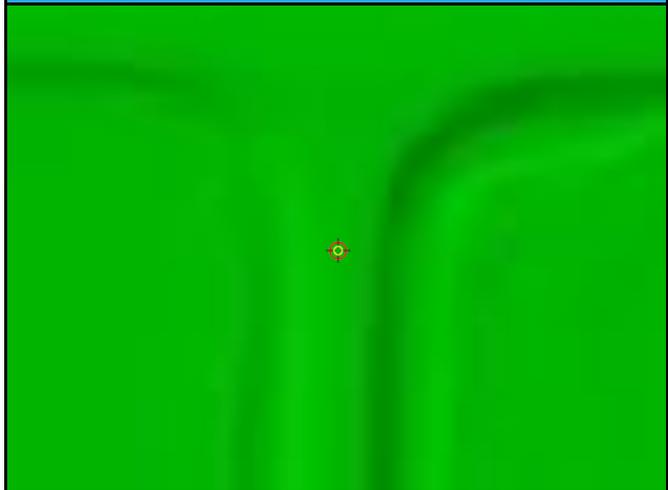
Intensity



LAS Points TIN



DEM

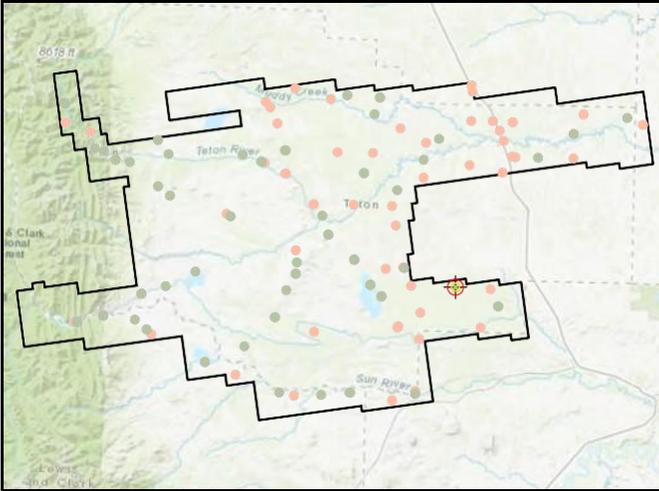


BE036

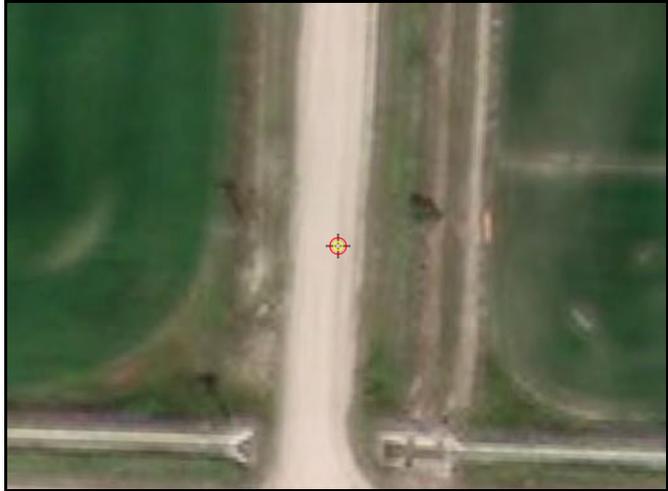
General	
Name	BE036
Type	NVA
Known Z	1169.08 m
DEM Dz	-1.06 cm

Ground (LAS Points)	
Dz	-0.83 cm
Density	4.77 ppsm
Nearest	0.21 m
Slope	6.28°

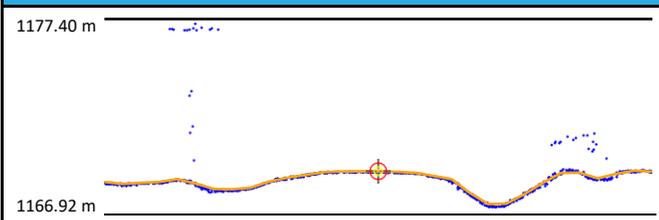
Project Context



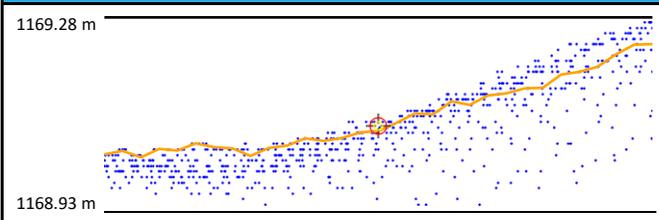
World Imagery



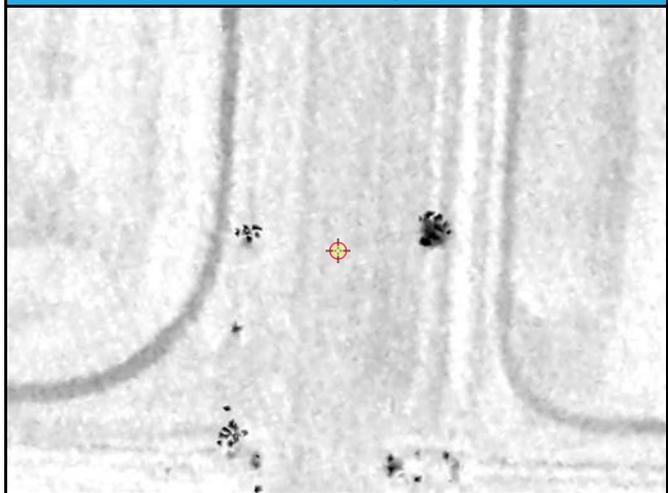
Cross Section - West to East



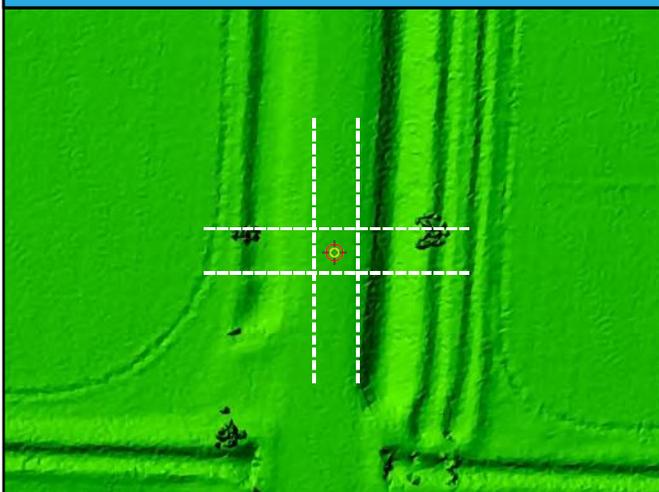
Cross Section - North to South



Intensity



LAS Points TIN



DEM

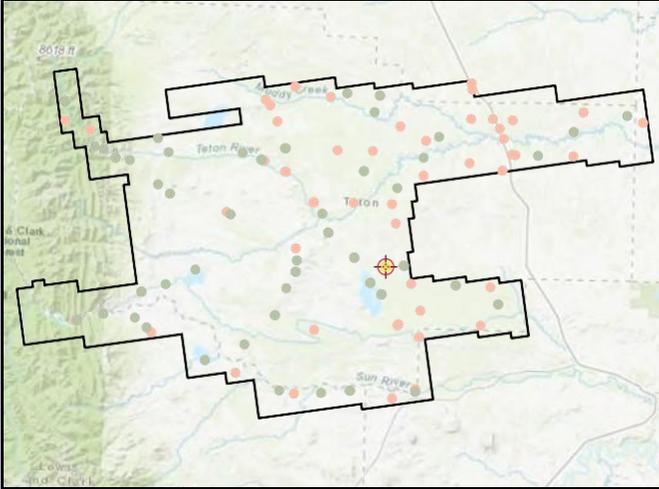


BE037

General	
Name	BE037
Type	NVA
Known Z	1164.64 m
DEM Dz	2.83 cm

Ground (LAS Points)	
Dz	3.00 cm
Density	2.79 ppsm
Nearest	0.21 m
Slope	2.00°

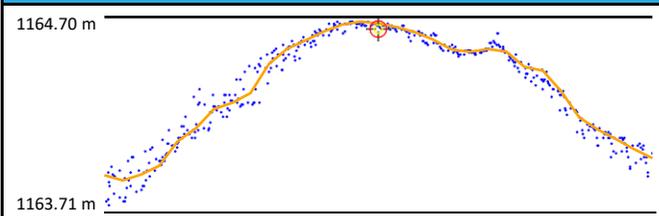
Project Context



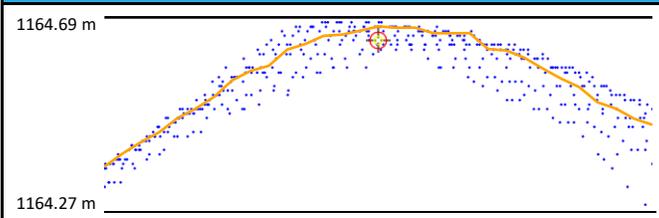
World Imagery



Cross Section - West to East



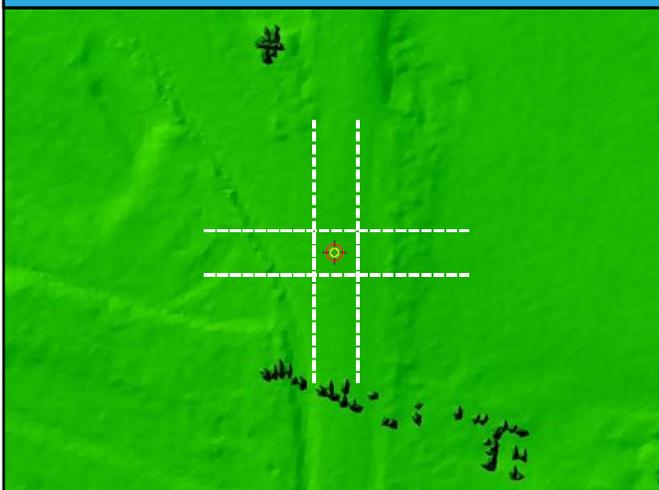
Cross Section - North to South



Intensity



LAS Points TIN



DEM

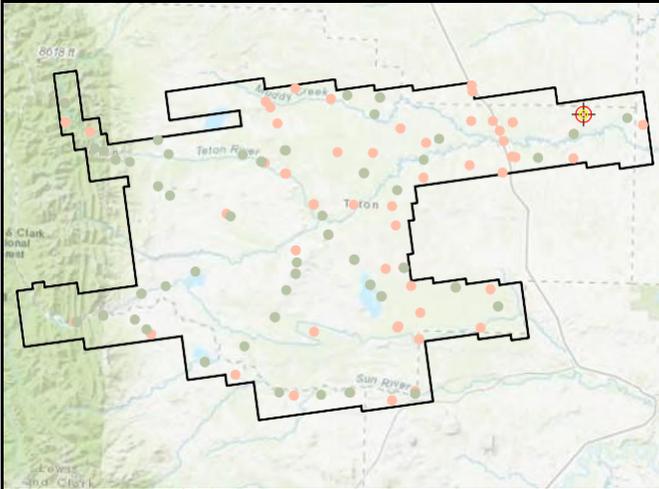


BE038

General	
Name	BE038
Type	NVA
Known Z	1032.89 m
DEM Dz	1.27 cm

Ground (LAS Points)	
Dz	1.49 cm
Density	14.78 ppsm
Nearest	0.19 m
Slope	1.43°

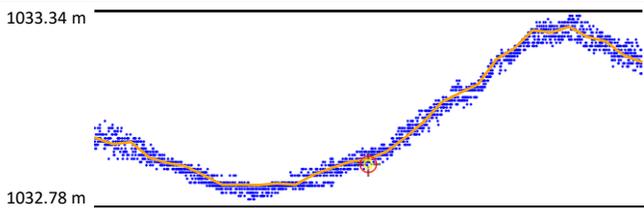
Project Context



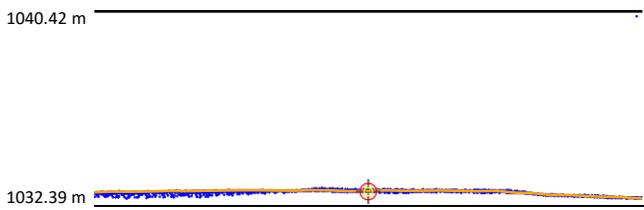
World Imagery



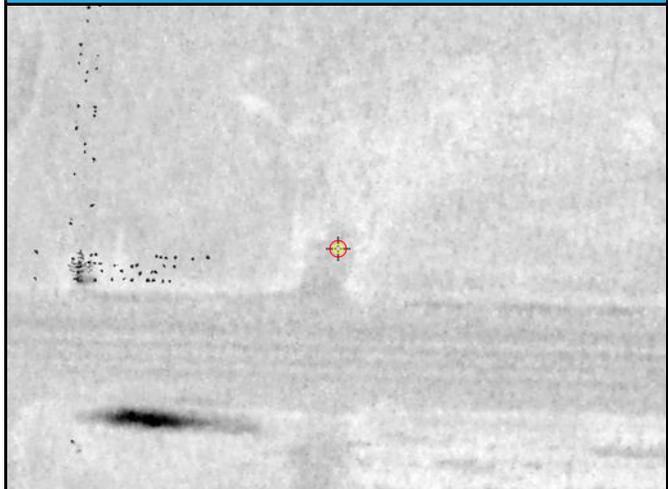
Cross Section - North to South



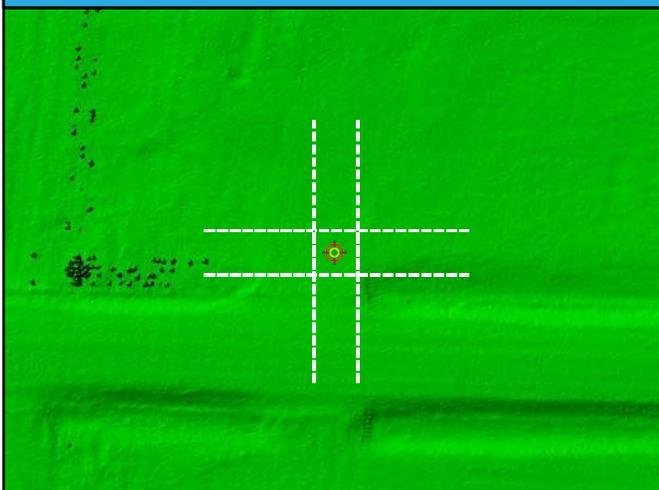
Cross Section - East to West



Intensity



LAS Points TIN



DEM

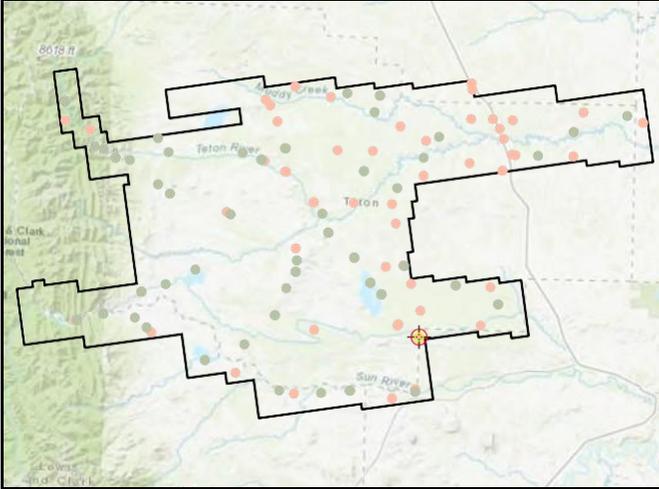


BE039

General	
Name	BE039
Type	NVA
Known Z	1221.61 m
DEM Dz	-2.12 cm

Ground (LAS Points)	
Dz	-1.69 cm
Density	11.95 ppsm
Nearest	0.19 m
Slope	1.01°

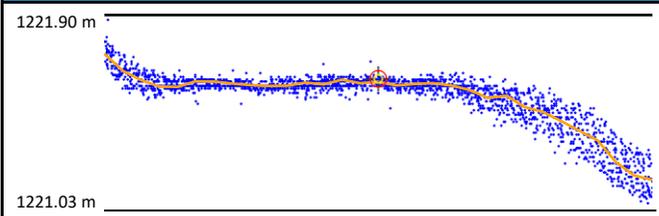
Project Context



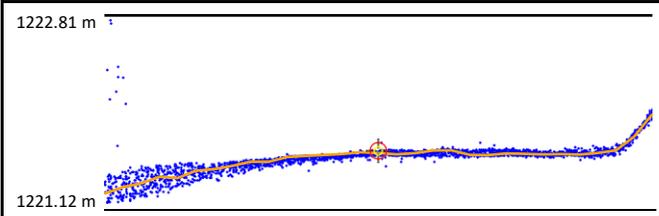
World Imagery



Cross Section - West to East



Cross Section - North to South



Intensity



LAS Points TIN



DEM

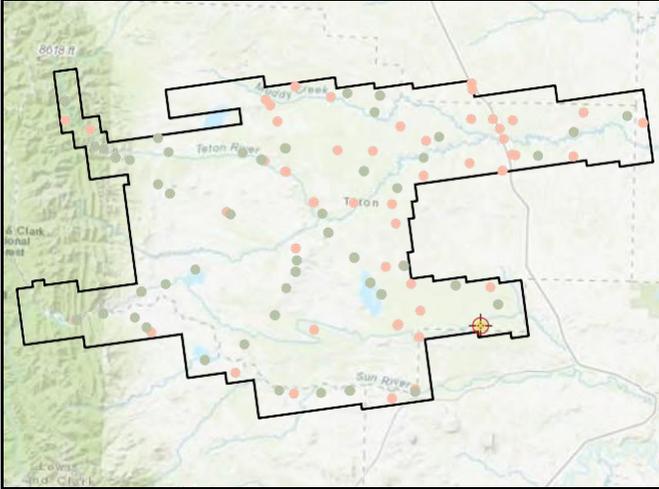


BE040

General	
Name	BE040
Type	NVA
Known Z	1200.64 m
DEM Dz	6.02 cm

Ground (LAS Points)	
Dz	5.73 cm
Density	4.99 ppsm
Nearest	0.15 m
Slope	6.84°

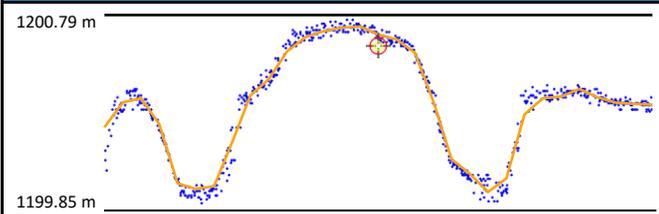
Project Context



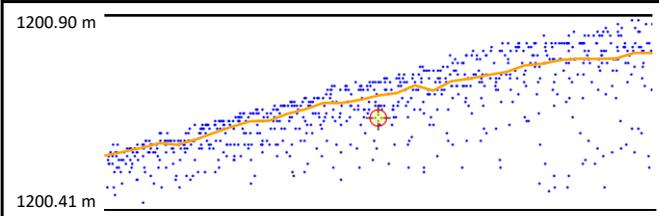
World Imagery



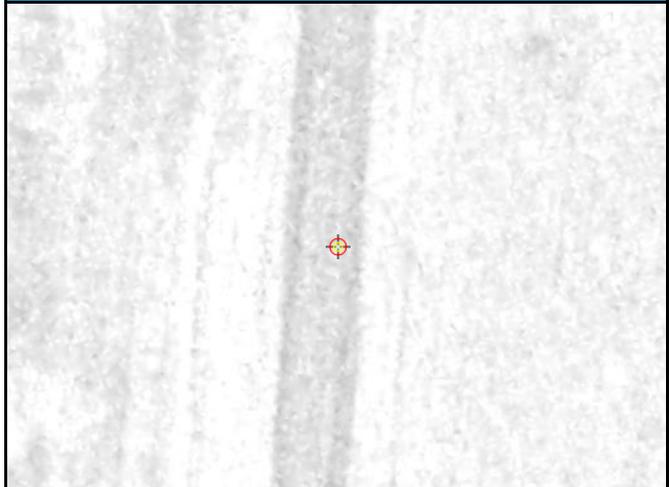
Cross Section - West to East



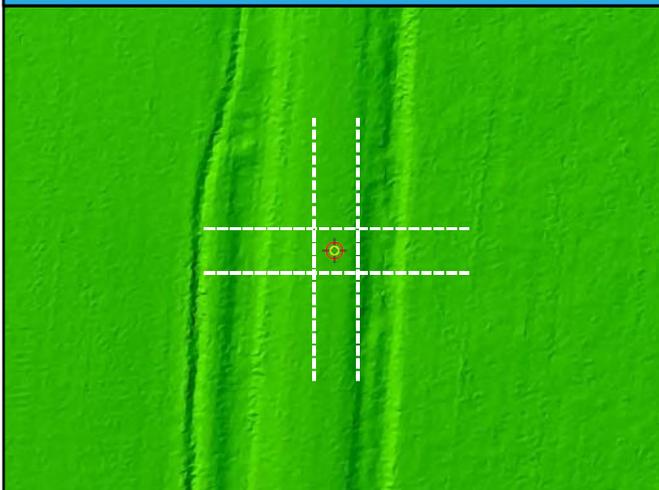
Cross Section - North to South



Intensity



LAS Points TIN



DEM

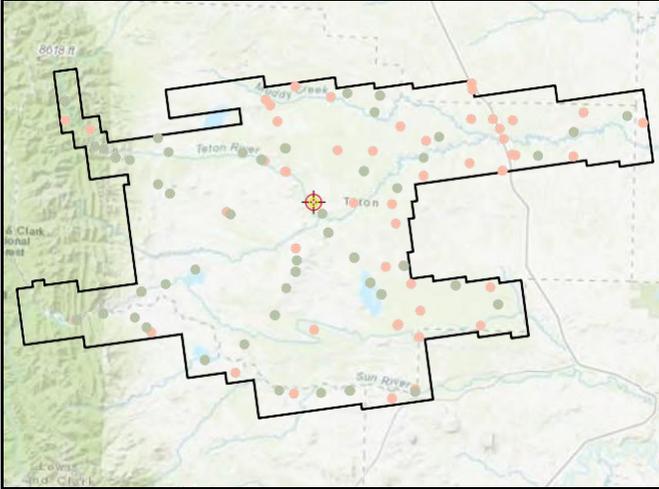


BE041

General	
Name	BE041
Type	NVA
Known Z	1164.82 m
DEM Dz	-0.74 cm

Ground (LAS Points)	
Dz	-0.97 cm
Density	10.61 ppsm
Nearest	0.11 m
Slope	0.29°

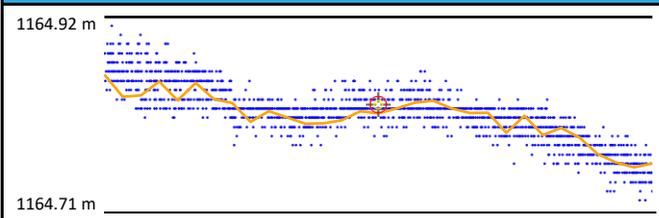
Project Context



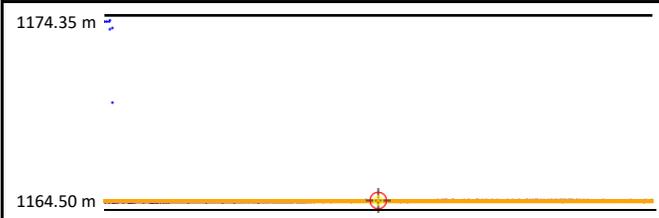
World Imagery



Cross Section - North to South



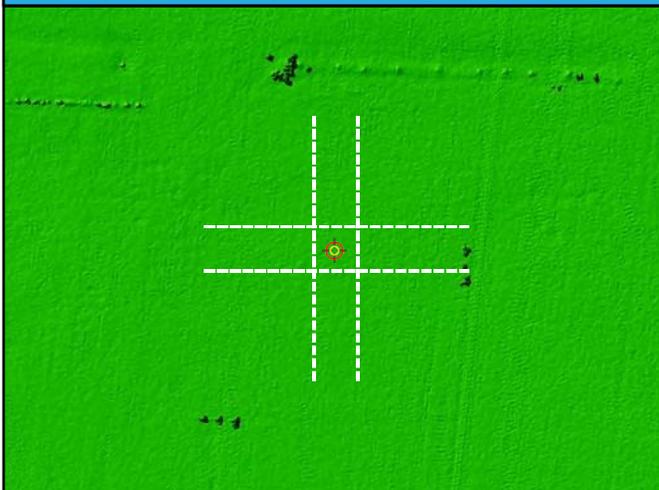
Cross Section - East to West



Intensity



LAS Points TIN



DEM

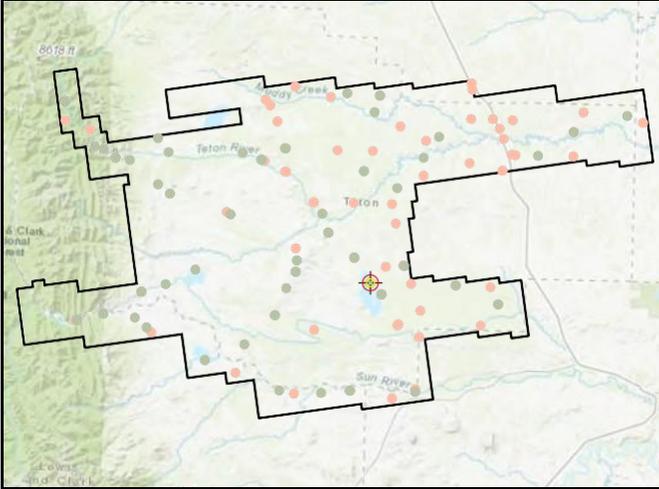


BE042

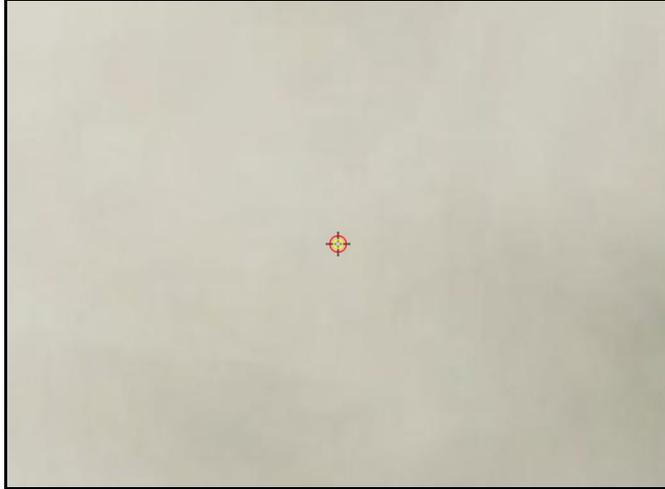
General	
Name	BE042
Type	NVA
Known Z	1150.21 m
DEM Dz	2.54 cm

Ground (LAS Points)	
Dz	2.72 cm
Density	4.14 ppsm
Nearest	0.11 m
Slope	1.43°

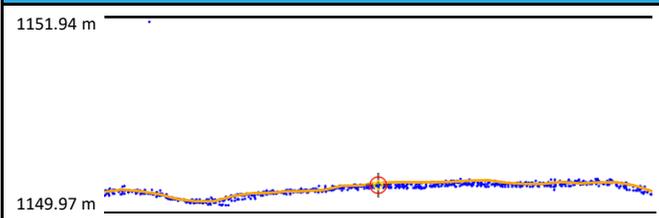
Project Context



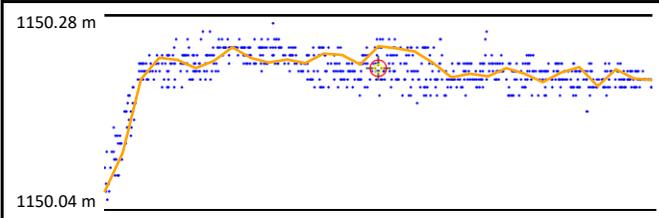
World Imagery



Cross Section - North to South



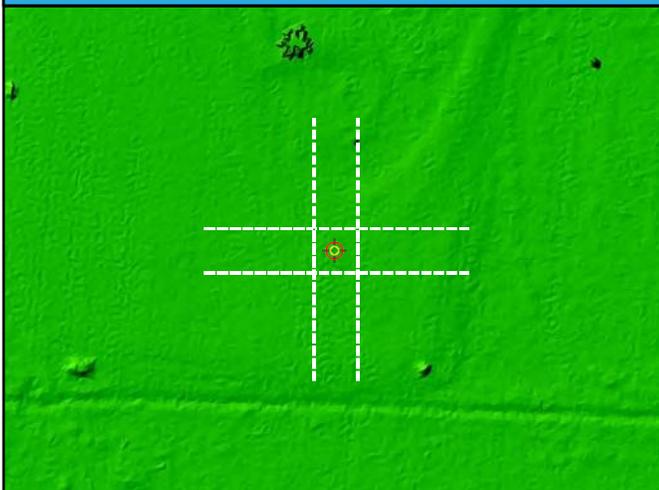
Cross Section - East to West



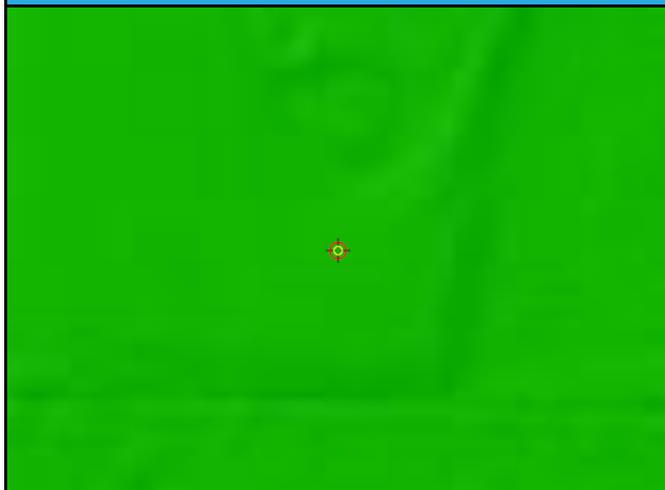
Intensity



LAS Points TIN



DEM

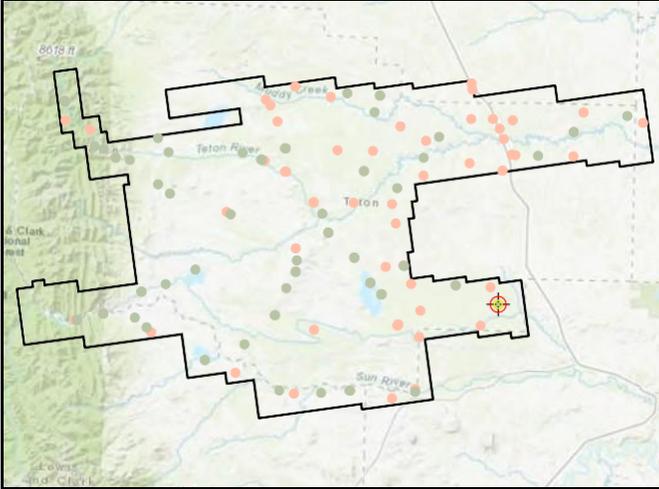


BE043

General	
Name	BE043
Type	NVA
Known Z	1146.77 m
DEM Dz	0.36 cm

Ground (LAS Points)	
Dz	0.29 cm
Density	2.83 ppsm
Nearest	0.44 m
Slope	4.86°

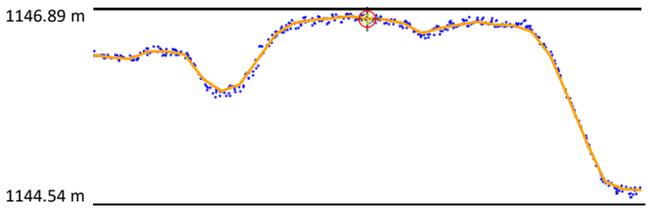
Project Context



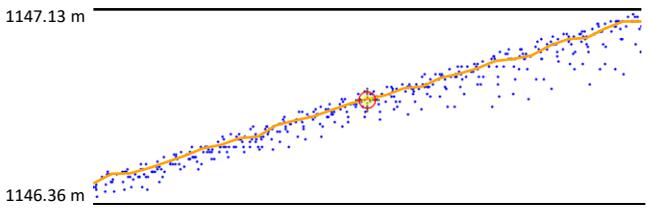
World Imagery



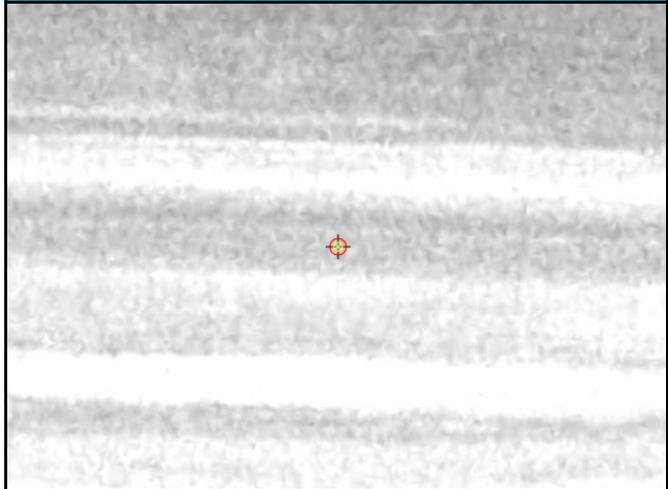
Cross Section - North to South



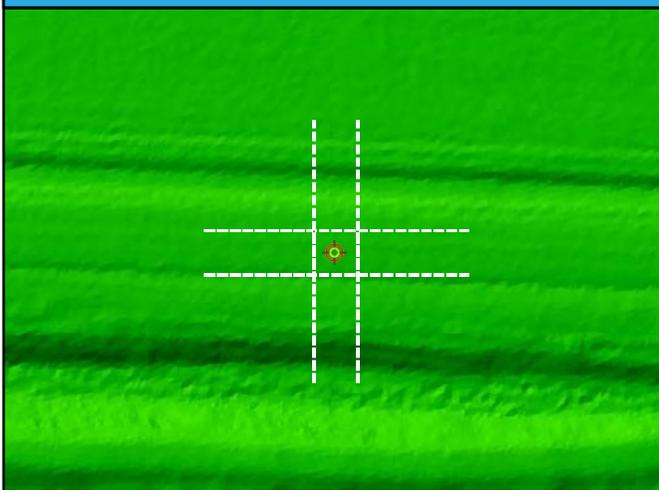
Cross Section - East to West



Intensity



LAS Points TIN



DEM

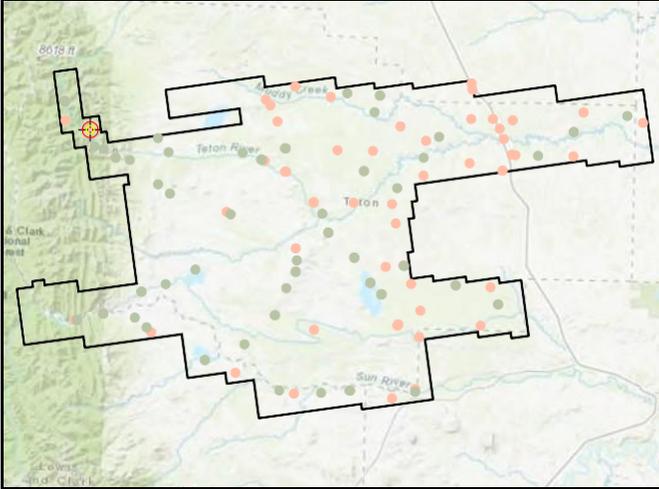


BE044

General	
Name	BE044
Type	NVA
Known Z	1614.57 m
DEM Dz	-1.95 cm

Ground (LAS Points)	
Dz	0.22 cm
Density	33.14 ppsm
Nearest	0.15 m
Slope	21.08°

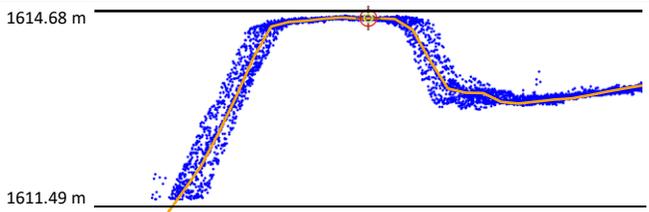
Project Context



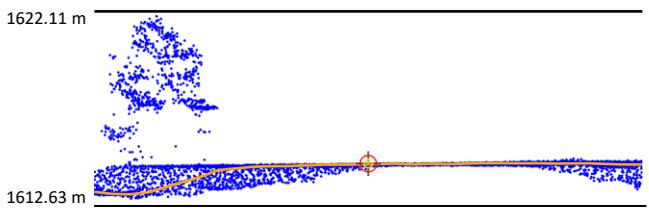
World Imagery



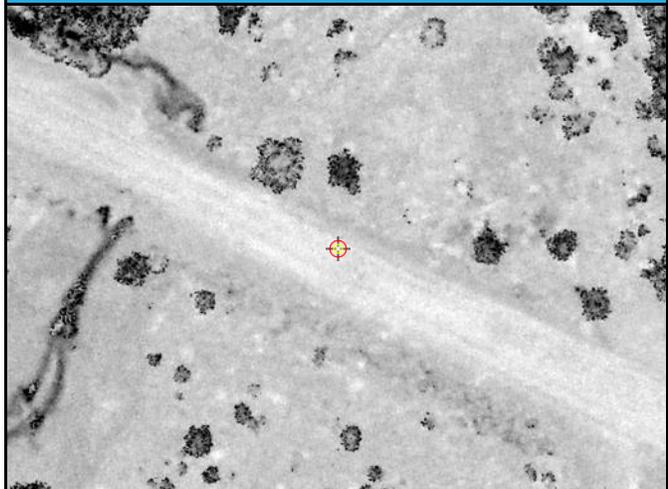
Cross Section - Southwest to Northeast



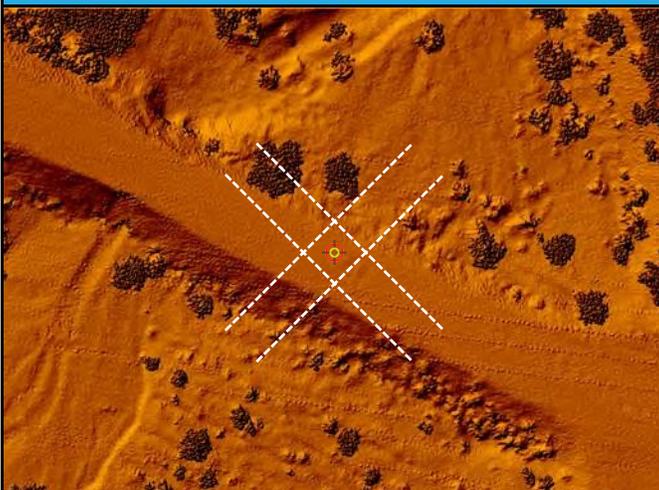
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

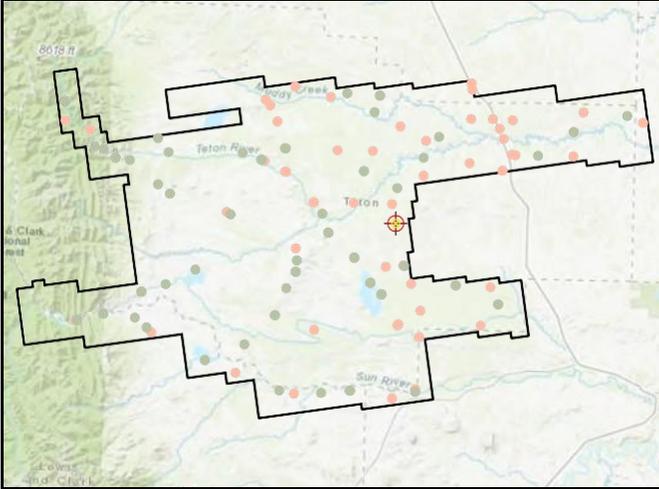


BE045

General	
Name	BE045
Type	NVA
Known Z	1233.75 m
DEM Dz	1.41 cm

Ground (LAS Points)	
Dz	0.86 cm
Density	9.48 ppsm
Nearest	0.22 m
Slope	5.25°

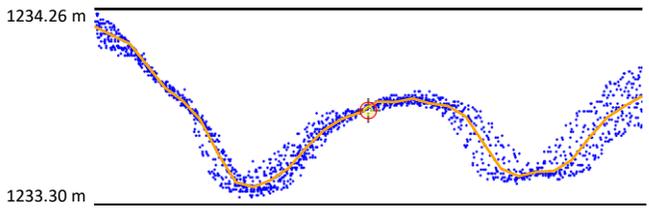
Project Context



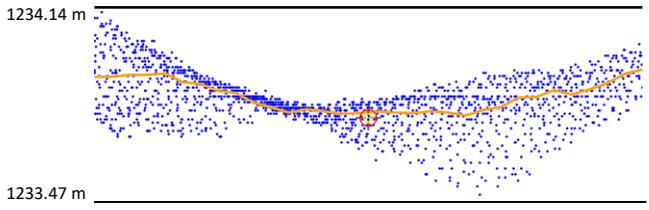
World Imagery



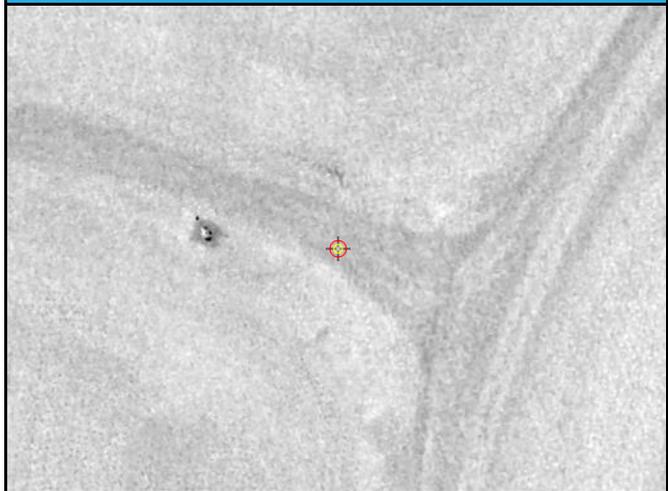
Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

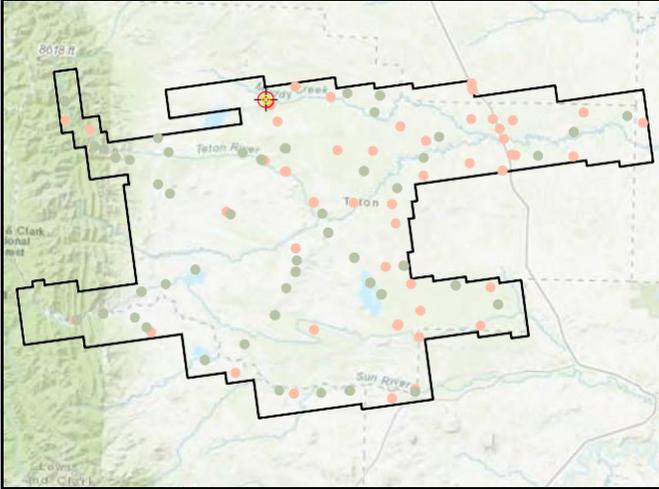


BE046

General	
Name	BE046
Type	NVA
Known Z	1212.44 m
DEM Dz	-2.82 cm

Ground (LAS Points)	
Dz	-2.85 cm
Density	13.02 ppsm
Nearest	0.13 m
Slope	1.43°

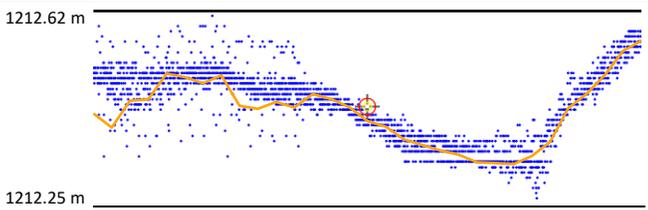
Project Context



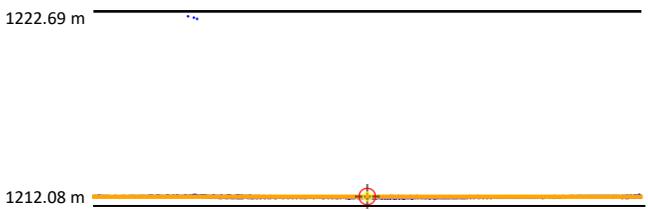
World Imagery



Cross Section - West to East



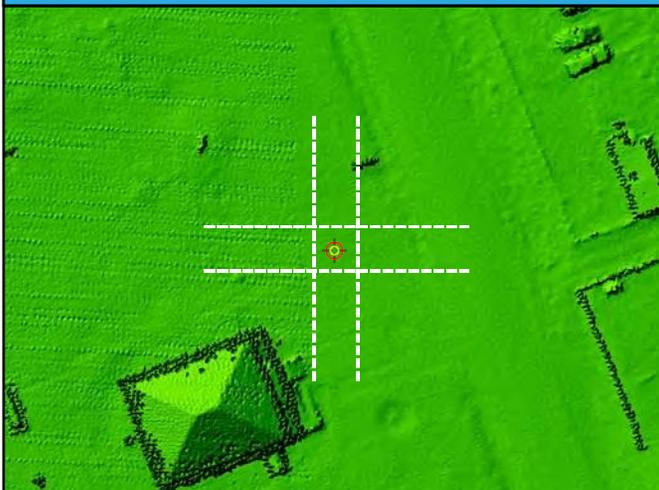
Cross Section - North to South



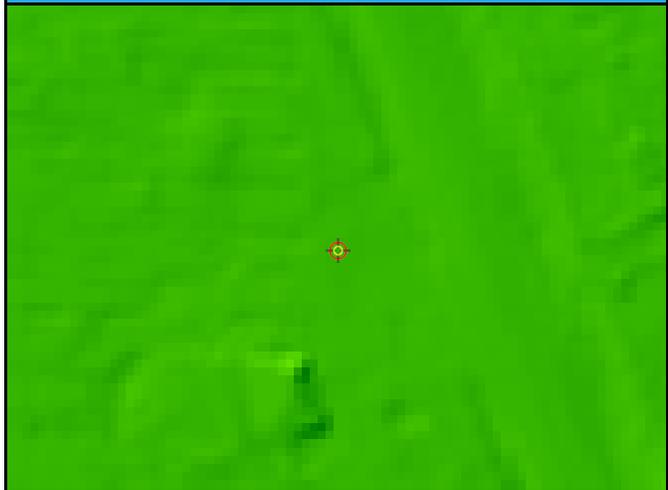
Intensity



LAS Points TIN



DEM

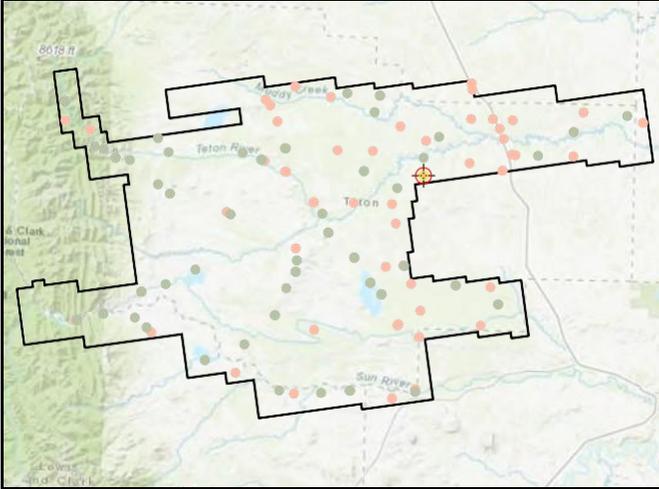


BE047

General	
Name	BE047
Type	NVA
Known Z	1146.93 m
DEM Dz	-0.80 cm

Ground (LAS Points)	
Dz	-0.60 cm
Density	15.07 ppsm
Nearest	0.16 m
Slope	3.04°

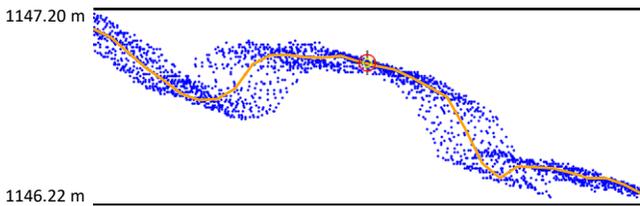
Project Context



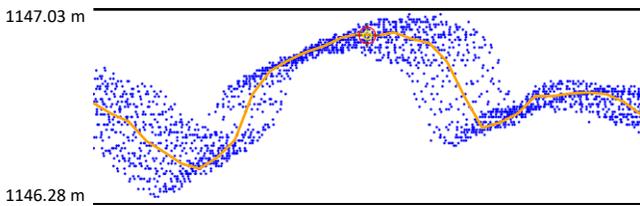
World Imagery



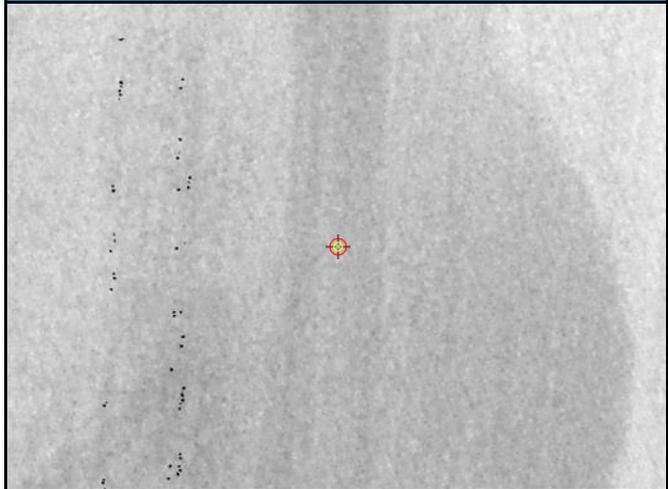
Cross Section - Southwest to Northeast



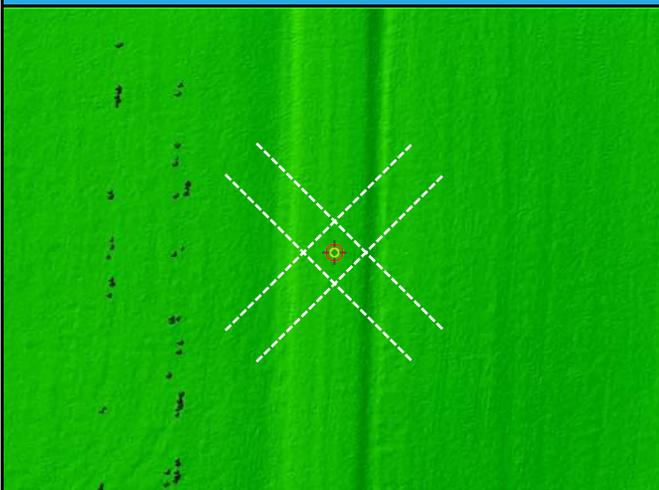
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

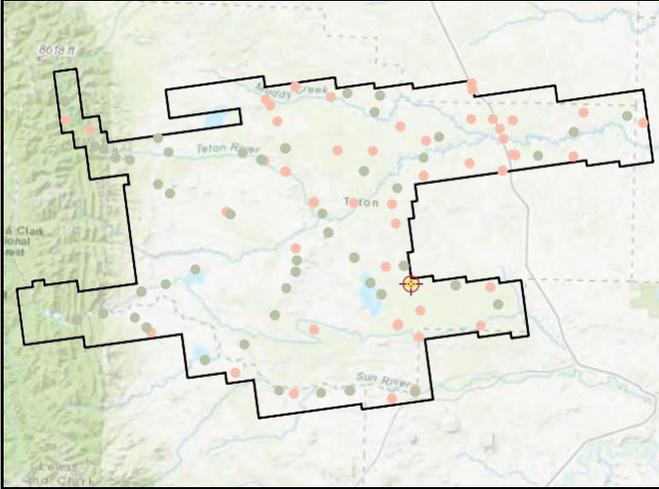


BE048

General	
Name	BE048
Type	NVA
Known Z	1192.15 m
DEM Dz	-0.41 cm

Ground (LAS Points)	
Dz	-0.64 cm
Density	6.97 ppsm
Nearest	0.19 m
Slope	2.02°

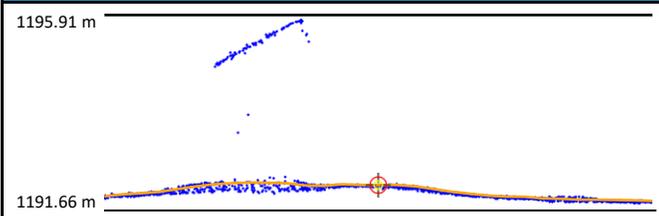
Project Context



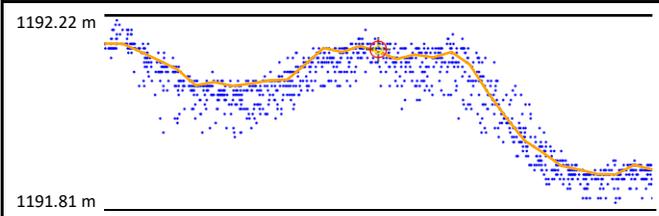
World Imagery



Cross Section - West to East



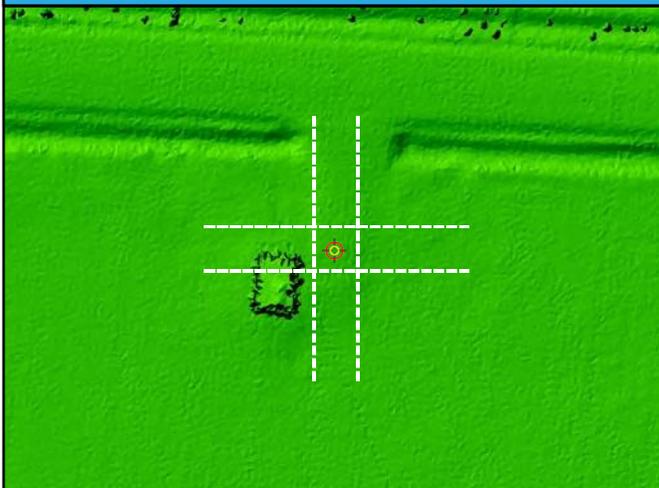
Cross Section - North to South



Intensity



LAS Points TIN



DEM

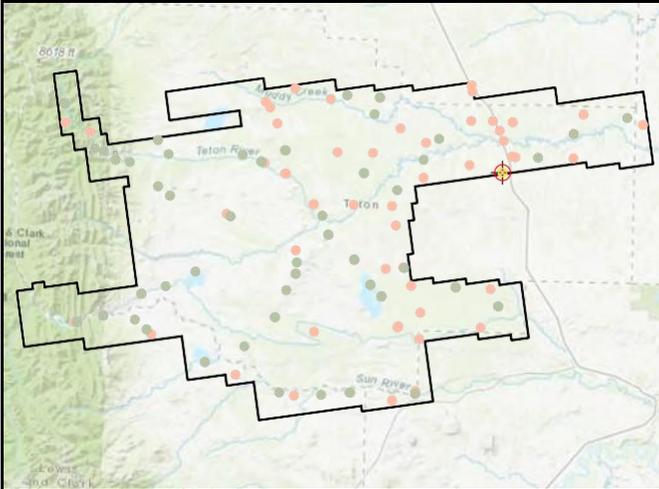


BE049

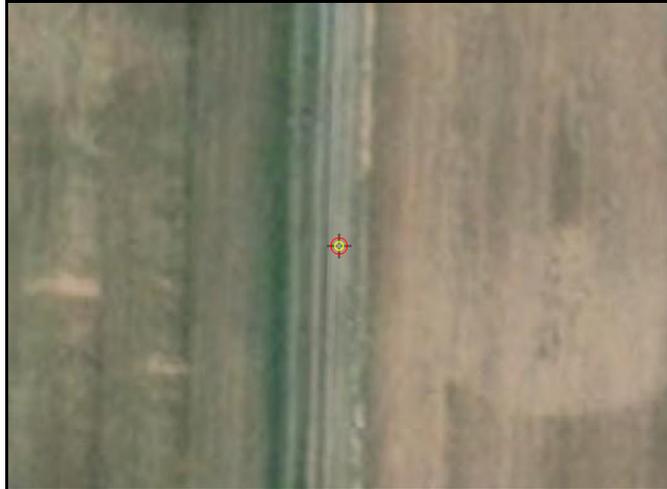
General	
Name	BE049
Type	NVA
Known Z	1103.28 m
DEM Dz	1.08 cm

Ground (LAS Points)	
Dz	0.64 cm
Density	14.43 ppsm
Nearest	0.17 m
Slope	4.25°

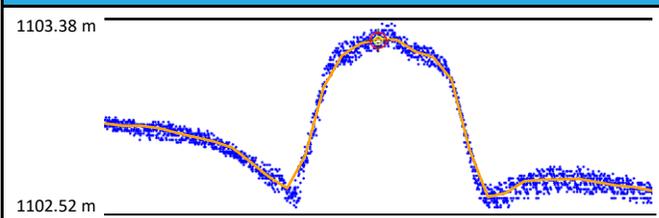
Project Context



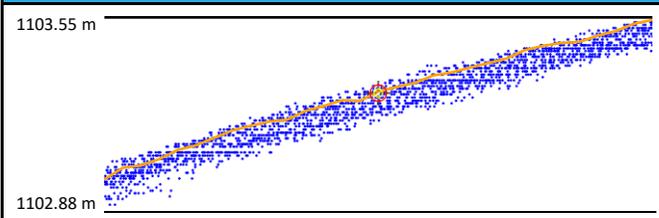
World Imagery



Cross Section - West to East



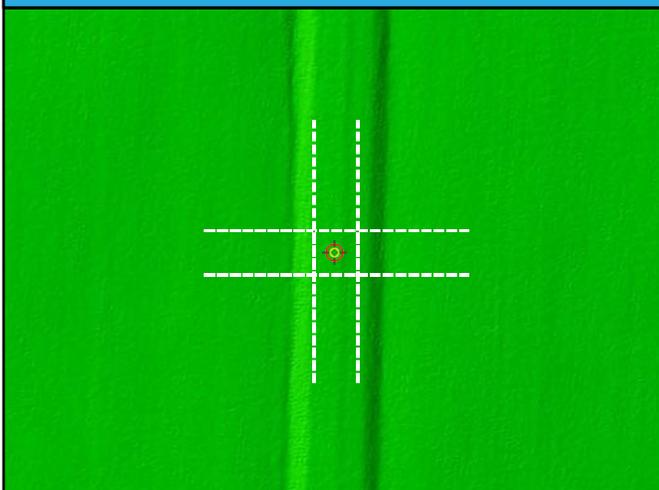
Cross Section - North to South



Intensity



LAS Points TIN



DEM

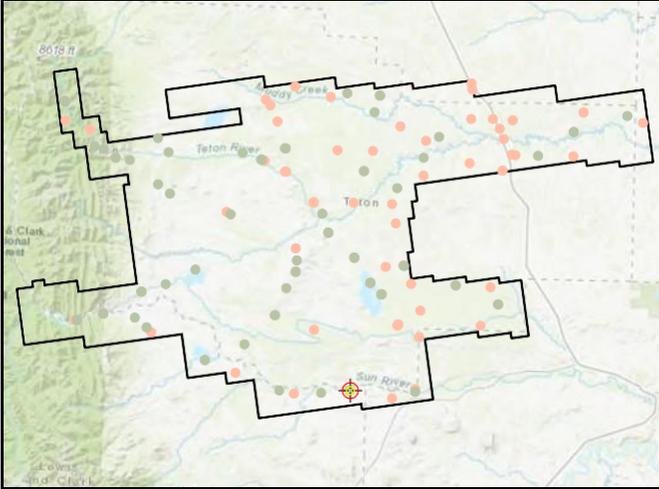


BE050

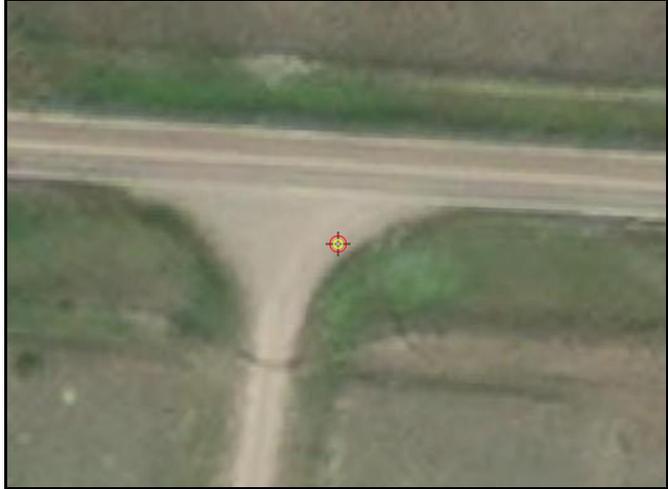
General	
Name	BE050
Type	NVA
Known Z	1135.82 m
DEM Dz	3.11 cm

Ground (LAS Points)	
Dz	3.22 cm
Density	5.45 ppsm
Nearest	0.16 m
Slope	3.24°

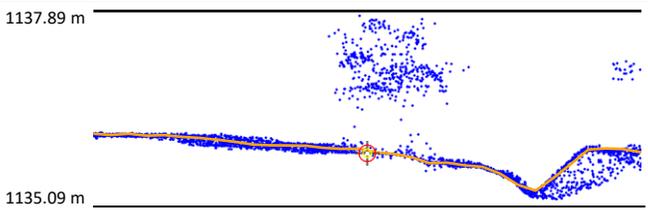
Project Context



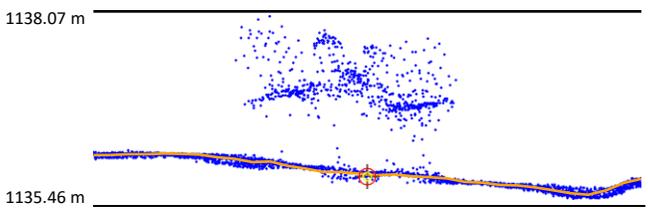
World Imagery



Cross Section - Northwest to Southeast



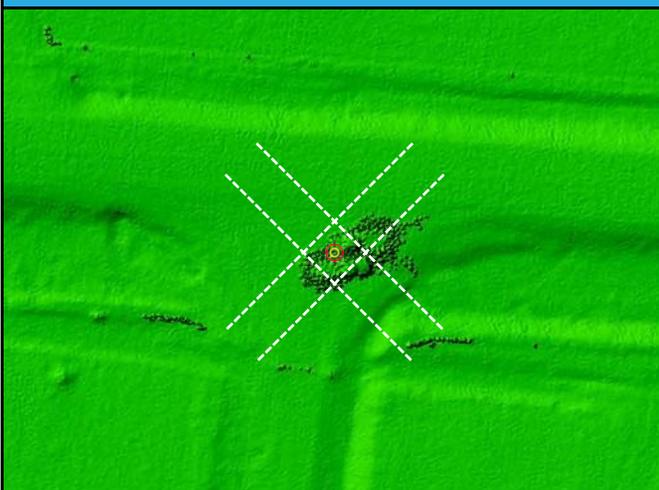
Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

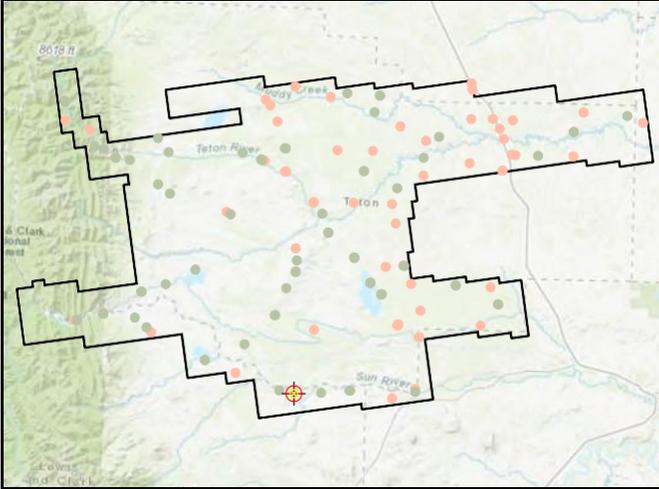


BE051

General	
Name	BE051
Type	NVA
Known Z	1168.30 m
DEM Dz	-1.11 cm

Ground (LAS Points)	
Dz	-0.47 cm
Density	16.41 ppsm
Nearest	0.09 m
Slope	4.57°

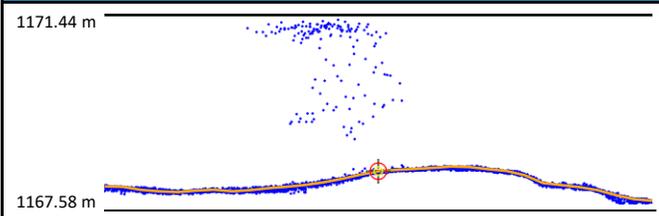
Project Context



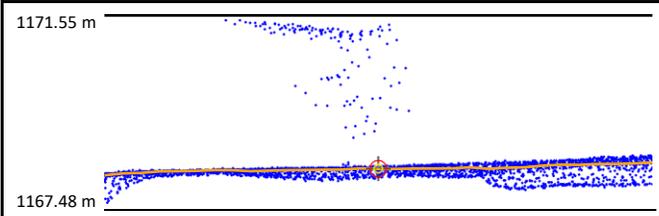
World Imagery



Cross Section - West to East



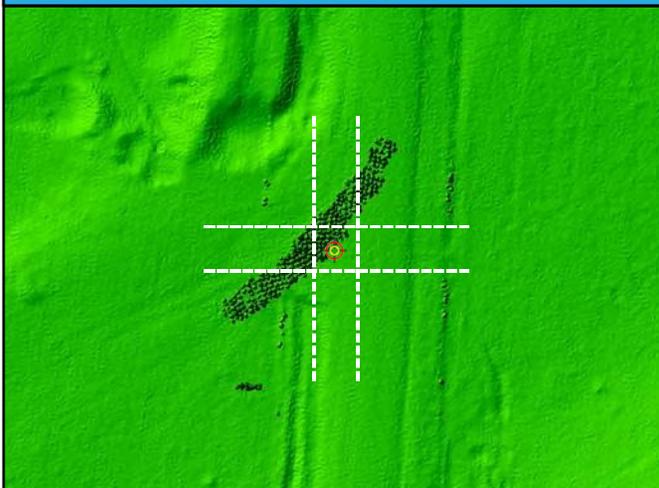
Cross Section - North to South



Intensity



LAS Points TIN



DEM

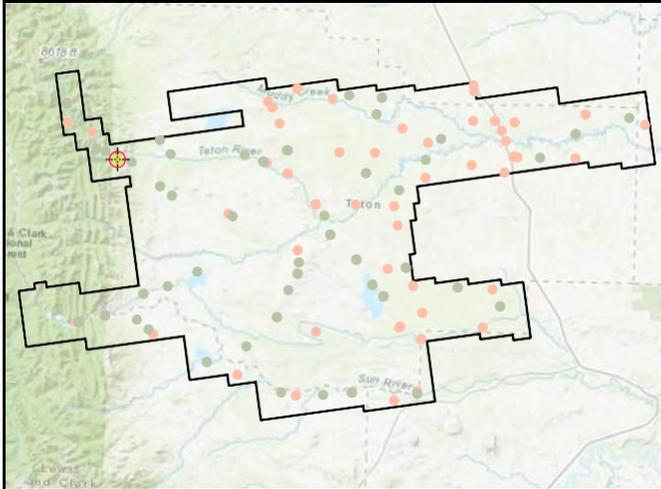


BE052

General	
Name	BE052
Type	NVA
Known Z	1548.56 m
DEM Dz	4.05 cm

Ground (LAS Points)	
Dz	3.49 cm
Density	21.29 ppsm
Nearest	0.12 m
Slope	5.65°

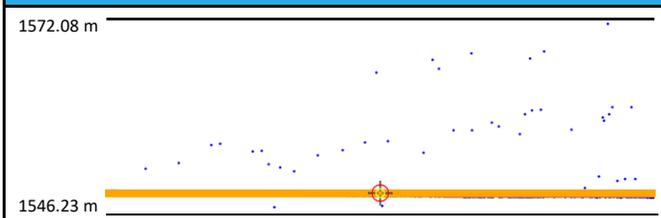
Project Context



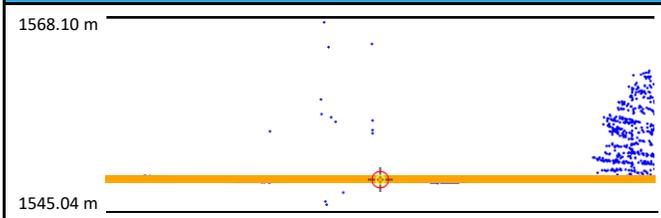
World Imagery



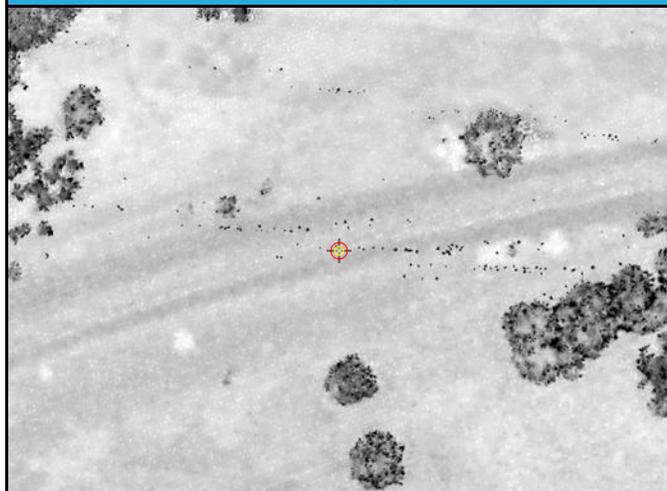
Cross Section - West to East



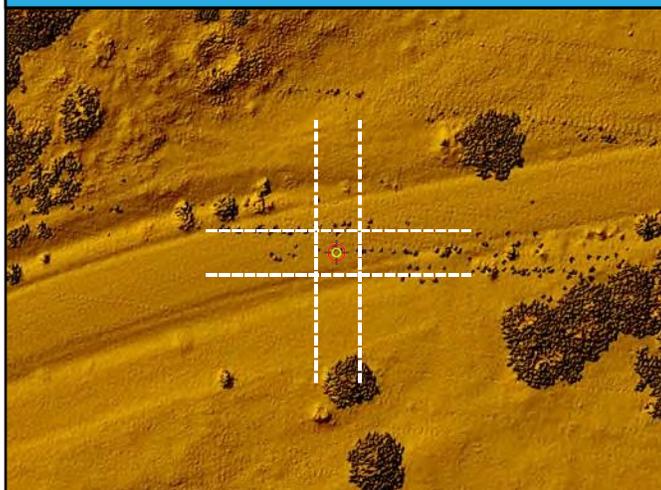
Cross Section - North to South



Intensity



LAS Points TIN



DEM

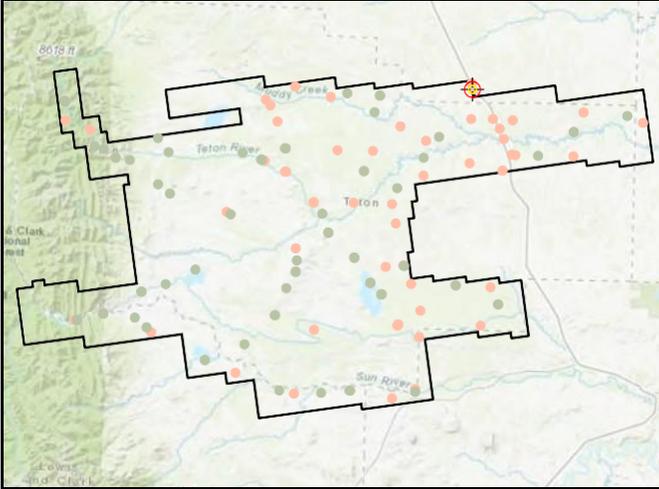


BE053

General	
Name	BE053
Type	NVA
Known Z	1073.21 m
DEM Dz	-2.79 cm

Ground (LAS Points)	
Dz	-2.18 cm
Density	14.08 ppsm
Nearest	0.19 m
Slope	1.15°

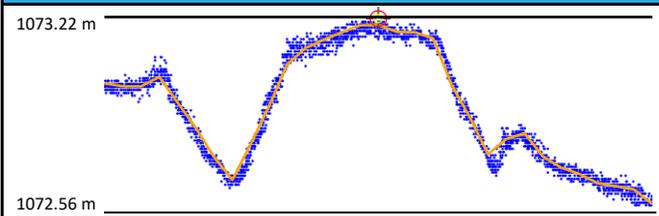
Project Context



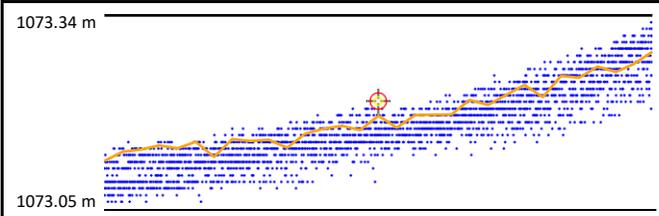
World Imagery



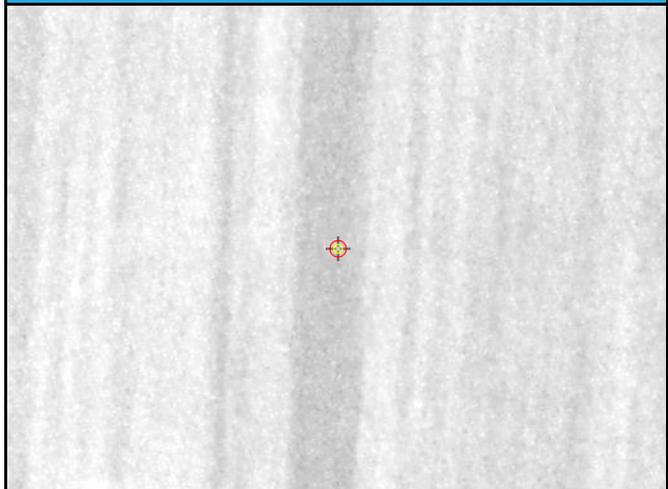
Cross Section - West to East



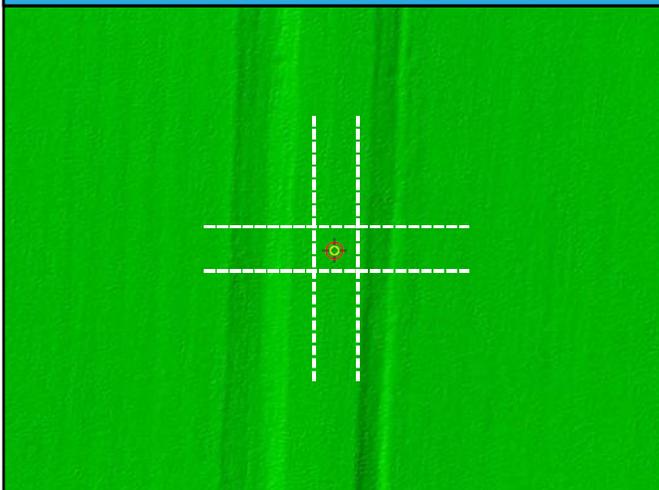
Cross Section - North to South



Intensity



LAS Points TIN



DEM

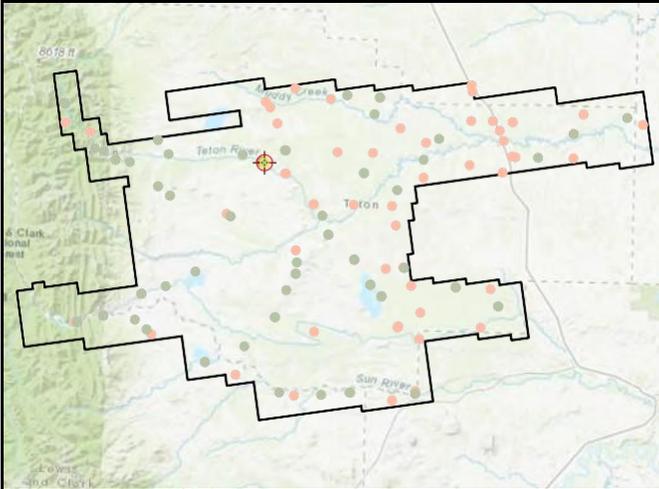


BE054

General	
Name	BE054
Type	NVA
Known Z	1259.81 m
DEM Dz	0.81 cm

Ground (LAS Points)	
Dz	1.15 cm
Density	14.57 ppsm
Nearest	0.06 m
Slope	5.14°

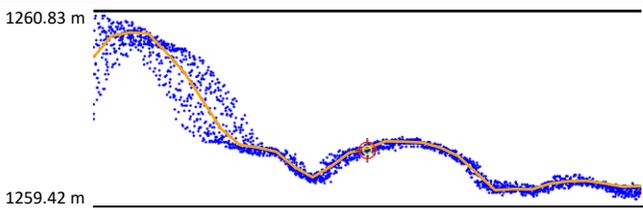
Project Context



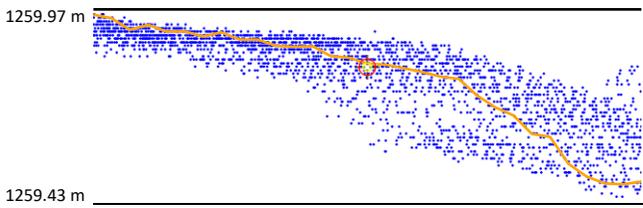
World Imagery



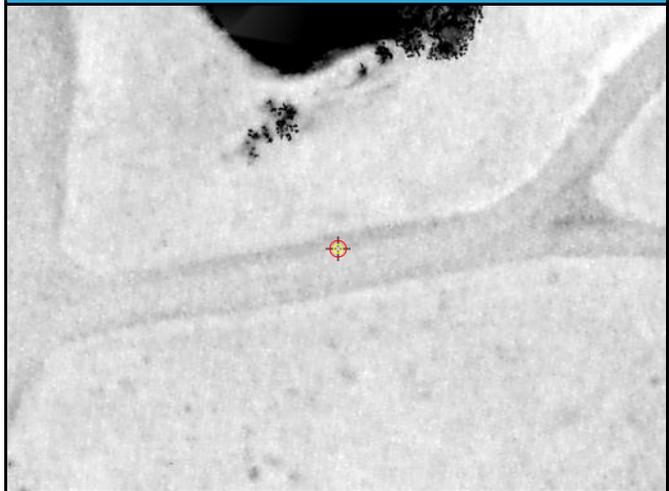
Cross Section - North to South



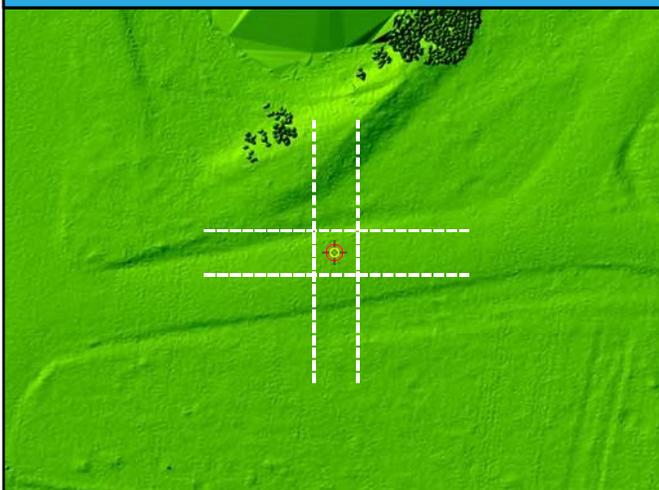
Cross Section - East to West



Intensity



LAS Points TIN



DEM

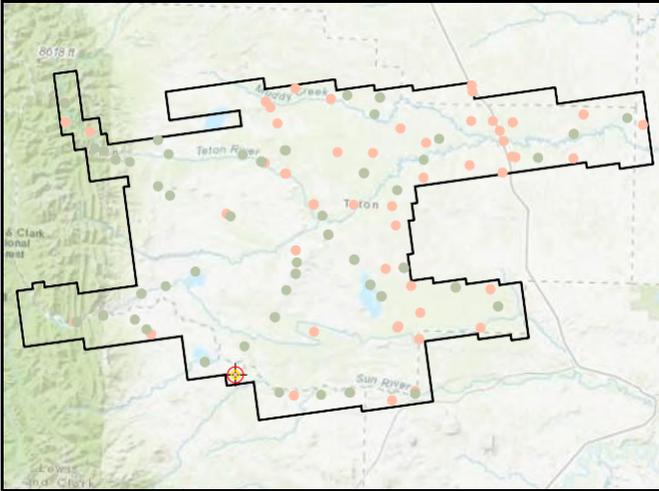


BE055

General	
Name	BE055
Type	NVA
Known Z	1277.12 m
DEM Dz	-1.92 cm

Ground (LAS Points)	
Dz	-0.53 cm
Density	12.20 ppsm
Nearest	0.10 m
Slope	5.45°

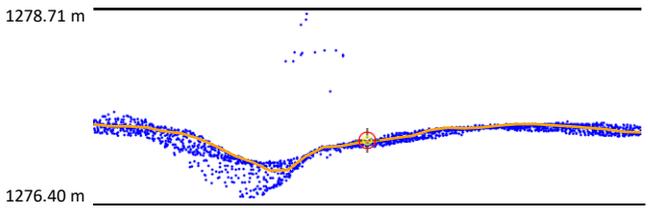
Project Context



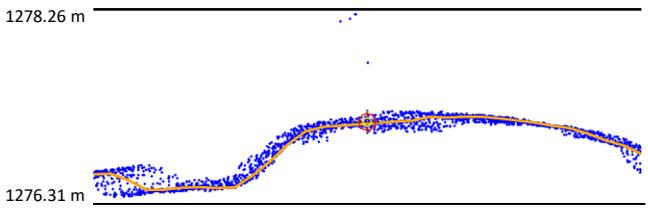
World Imagery



Cross Section - Southwest to Northeast



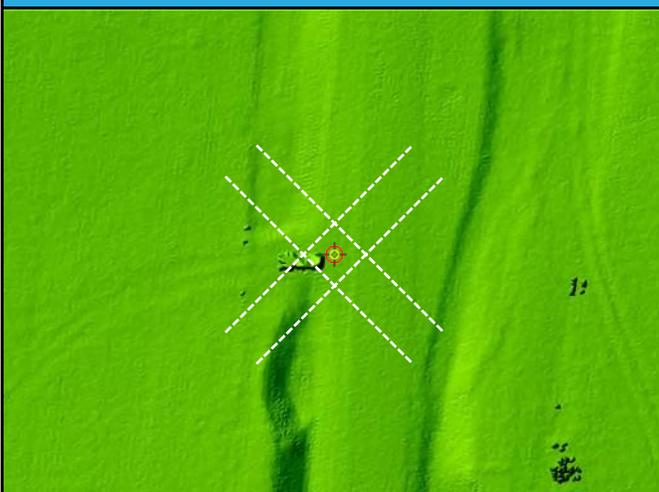
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

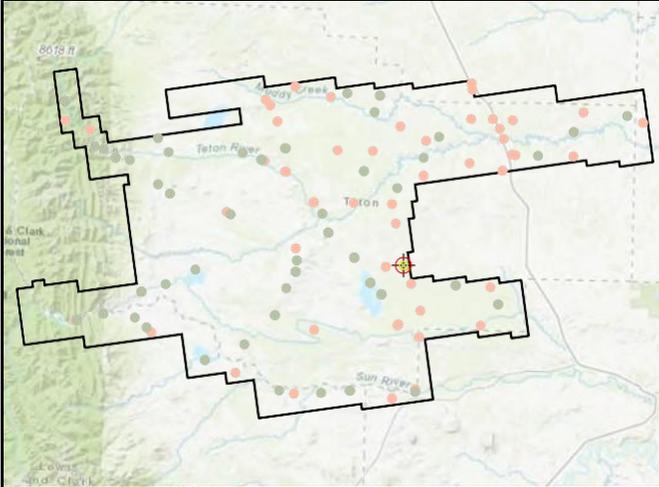


BE056

General	
Name	BE056
Type	NVA
Known Z	1176.19 m
DEM Dz	1.30 cm

Ground (LAS Points)	
Dz	1.46 cm
Density	2.72 ppsm
Nearest	0.33 m
Slope	8.45°

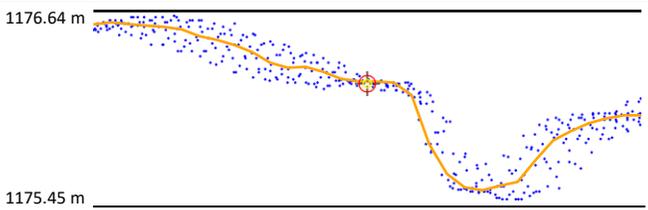
Project Context



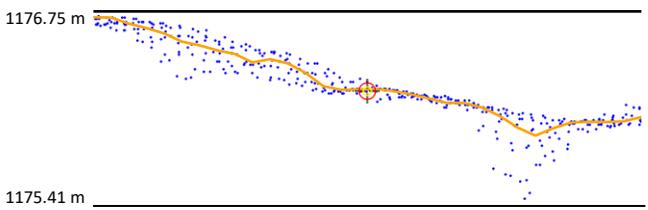
World Imagery



Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

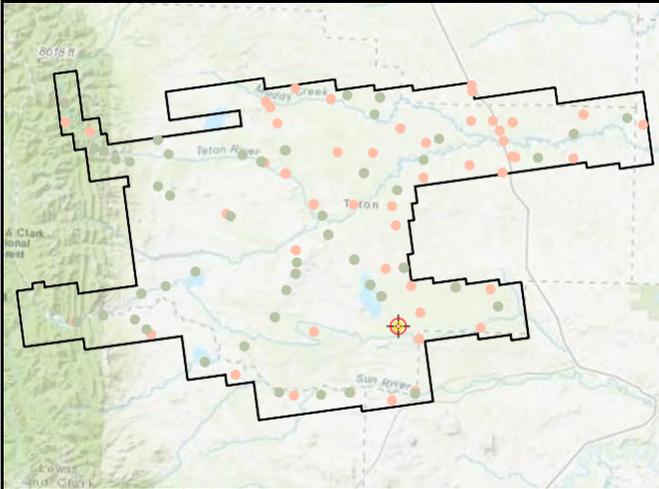


UA001

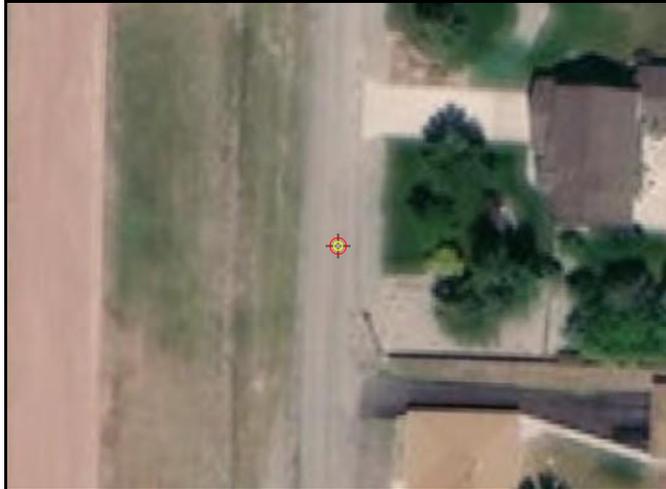
General	
Name	UA001
Type	NVA
Known Z	1212.09 m
DEM Dz	-0.04 cm

Ground (LAS Points)	
Dz	0.03 cm
Density	3.01 ppsm
Nearest	0.32 m
Slope	2.29°

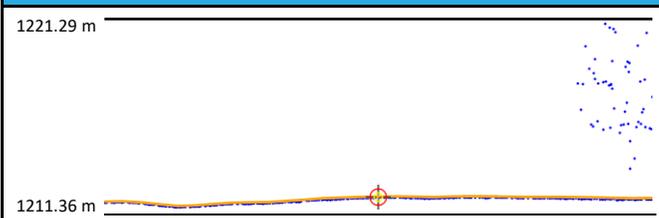
Project Context



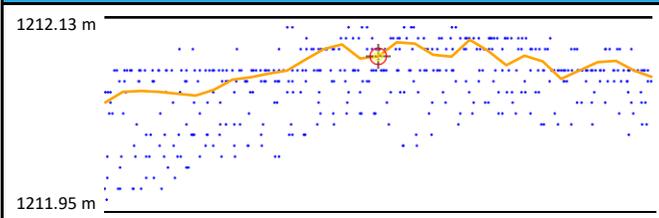
World Imagery



Cross Section - West to East



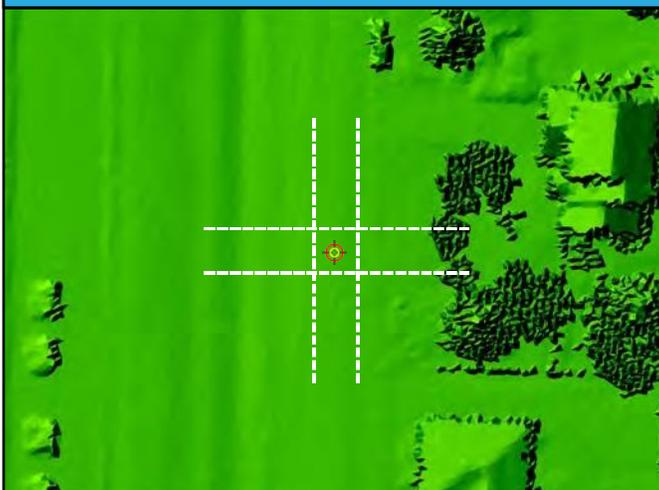
Cross Section - North to South



Intensity



LAS Points TIN



DEM

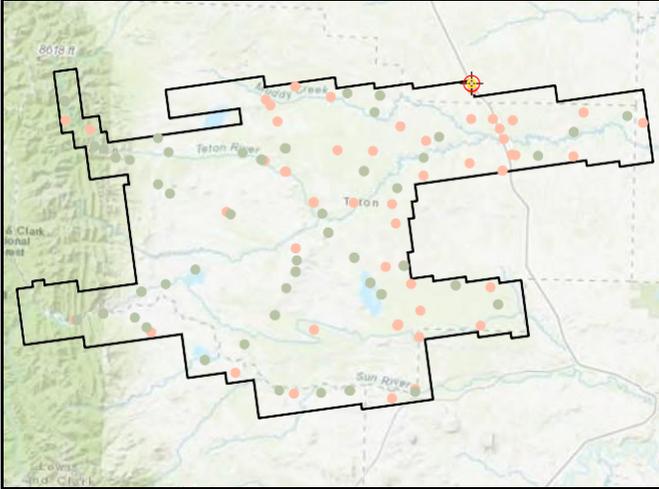


UA002

General	
Name	UA002
Type	NVA
Known Z	1077.91 m
DEM Dz	0.24 cm

Ground (LAS Points)	
Dz	-0.32 cm
Density	9.30 ppsm
Nearest	0.05 m
Slope	8.25°

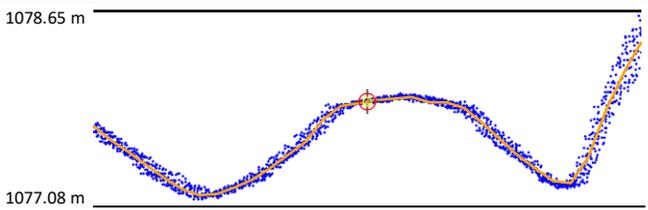
Project Context



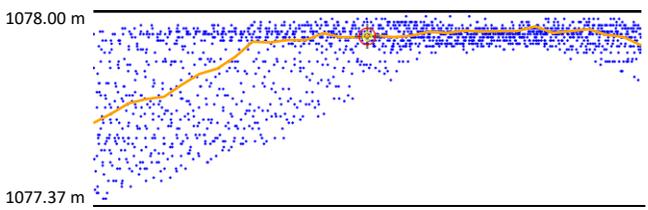
World Imagery



Cross Section - Southwest to Northeast



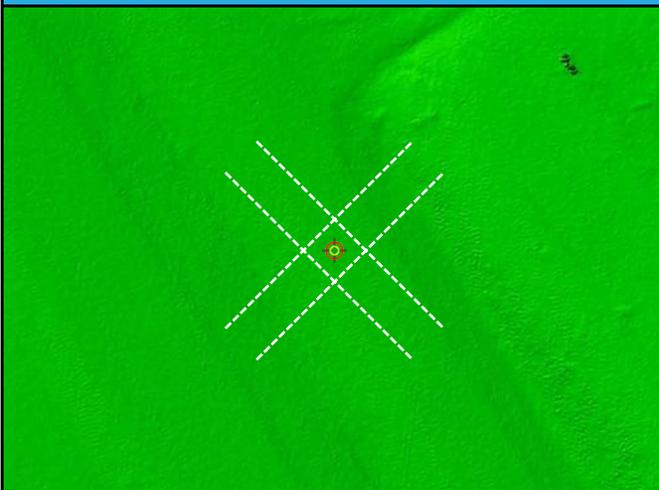
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

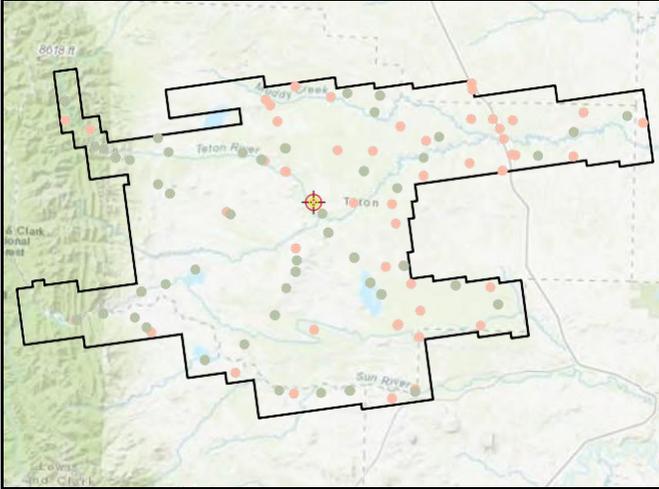


UA003

General	
Name	UA003
Type	NVA
Known Z	1164.75 m
DEM Dz	-1.10 cm

Ground (LAS Points)	
Dz	-1.34 cm
Density	11.18 ppsm
Nearest	0.21 m
Slope	0.86°

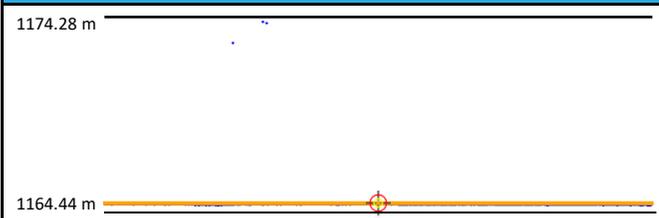
Project Context



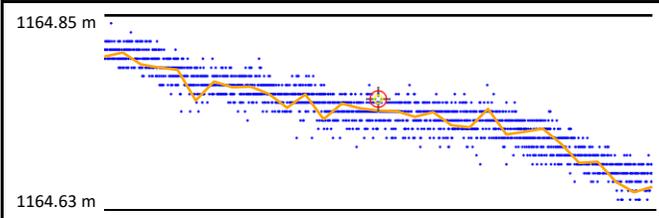
World Imagery



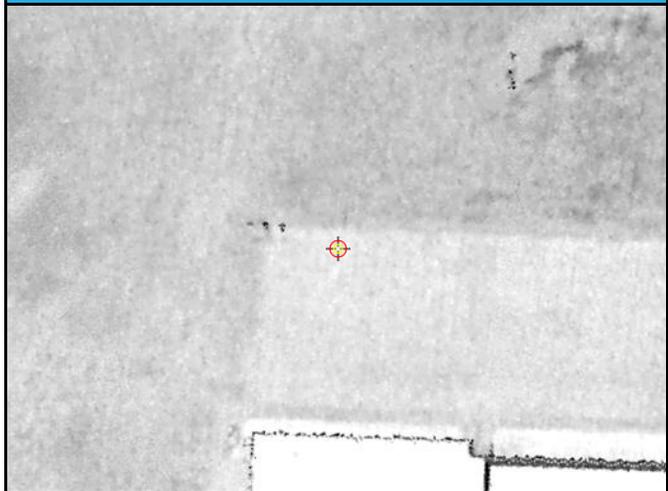
Cross Section - West to East



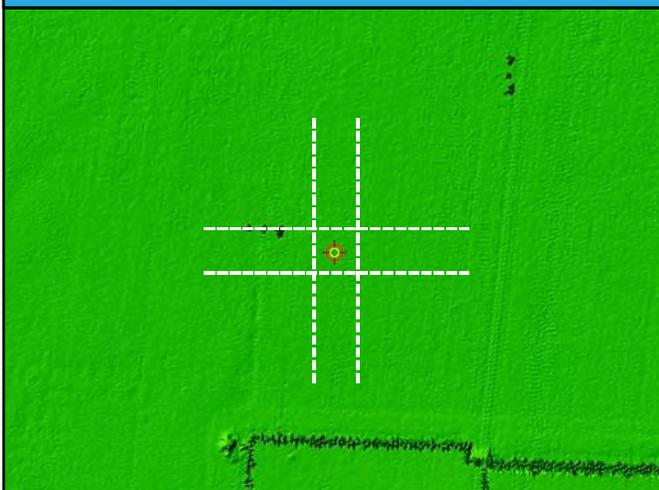
Cross Section - North to South



Intensity



LAS Points TIN



DEM

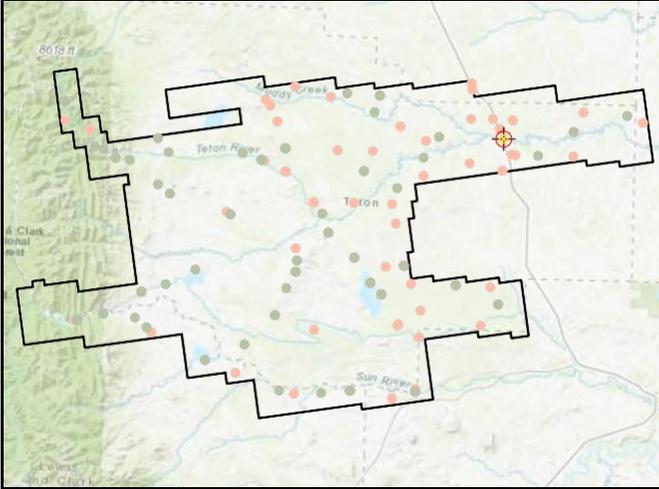


UA004

General	
Name	UA004
Type	NVA
Known Z	1025.80 m
DEM Dz	0.52 cm

Ground (LAS Points)	
Dz	0.75 cm
Density	14.39 ppsm
Nearest	0.12 m
Slope	1.72°

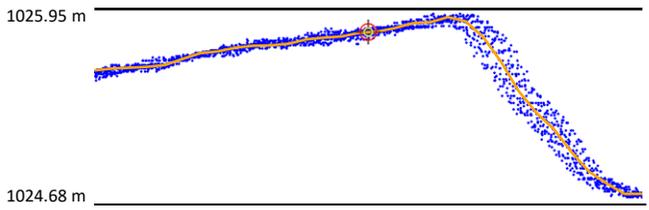
Project Context



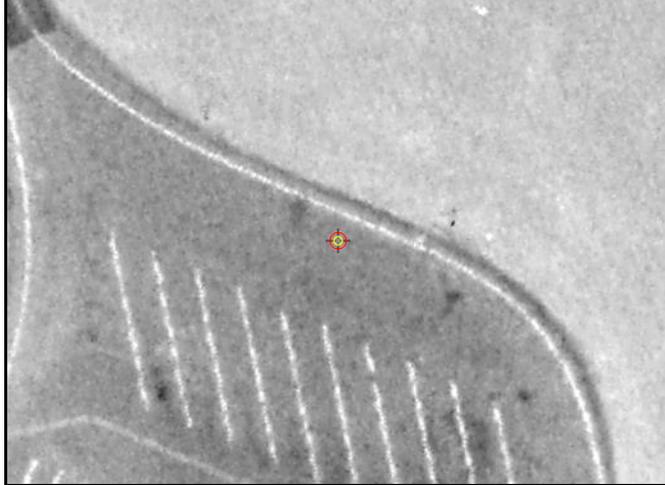
World Imagery



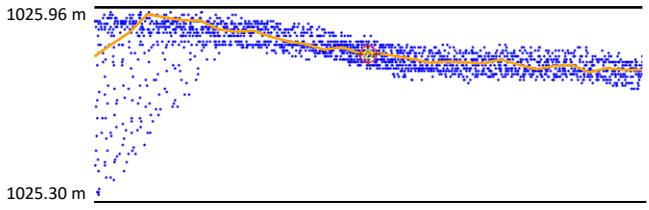
Cross Section - Southwest to Northeast



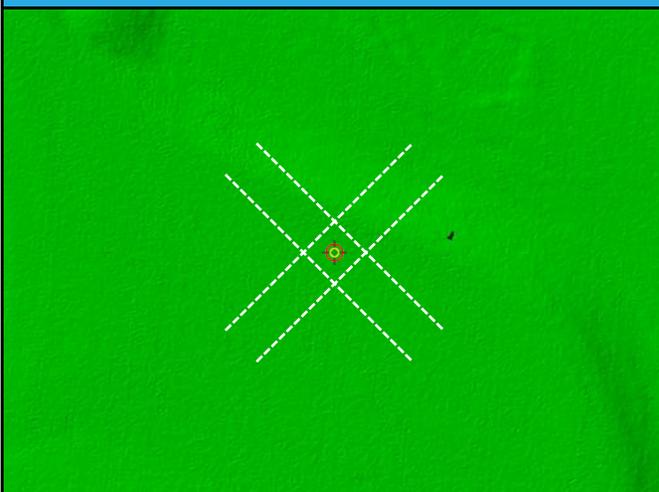
Intensity



Cross Section - Northwest to Southeast



LAS Points TIN



DEM

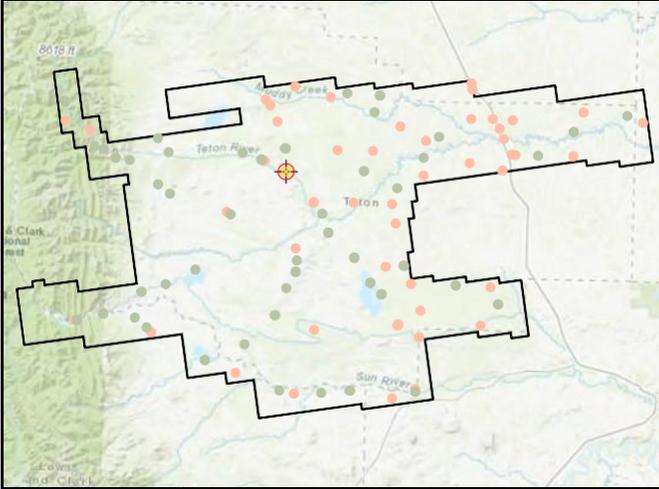


UA005

General	
Name	UA005
Type	NVA
Known Z	1217.23 m
DEM Dz	1.53 cm

Ground (LAS Points)	
Dz	1.85 cm
Density	20.37 ppsm
Nearest	0.14 m
Slope	1.22°

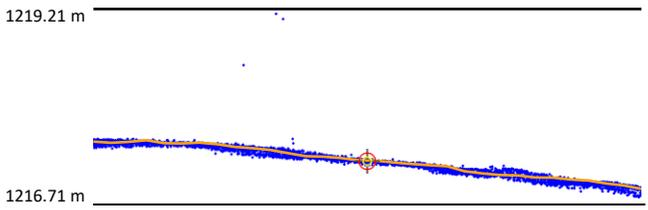
Project Context



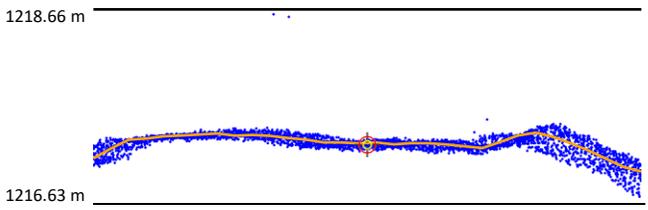
World Imagery



Cross Section - Northwest to Southeast



Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

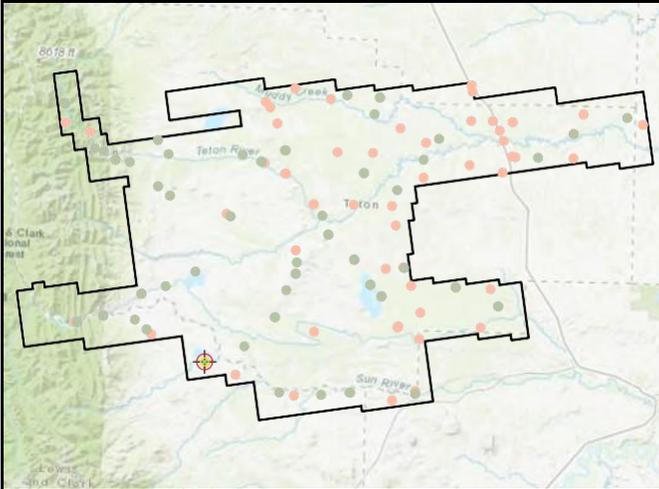


UA006

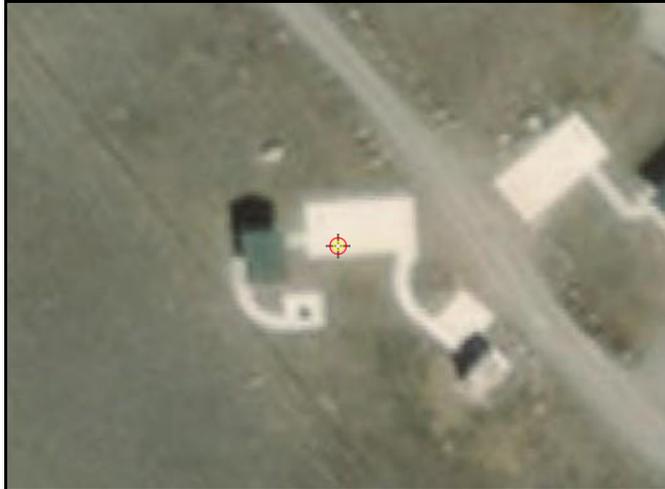
General	
Name	UA006
Type	NVA
Known Z	1265.89 m
DEM Dz	-0.97 cm

Ground (LAS Points)	
Dz	-0.32 cm
Density	15.53 ppsm
Nearest	0.14 m
Slope	1.22°

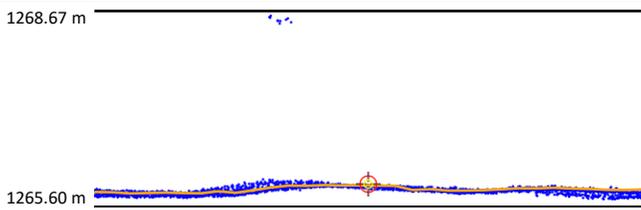
Project Context



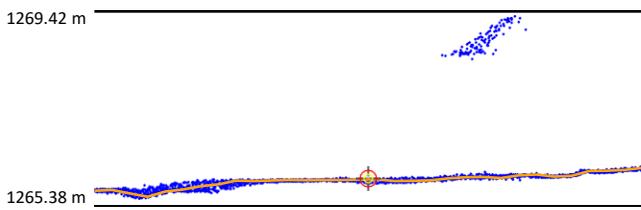
World Imagery



Cross Section - Northwest to Southeast



Cross Section - Northeast to Southwest



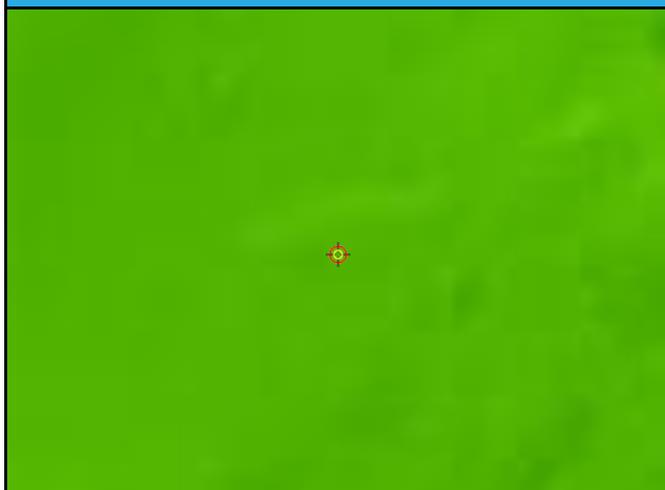
Intensity



LAS Points TIN



DEM

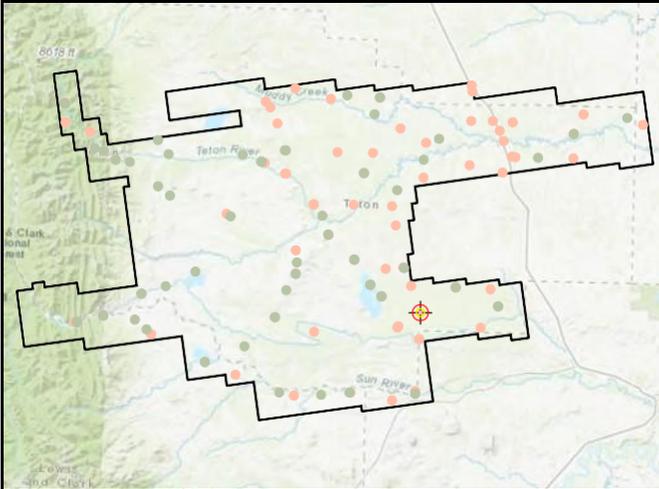


UA007

General	
Name	UA007
Type	NVA
Known Z	1195.26 m
DEM Dz	0.01 cm

Ground (LAS Points)	
Dz	-0.53 cm
Density	6.97 ppsm
Nearest	0.27 m
Slope	4.57°

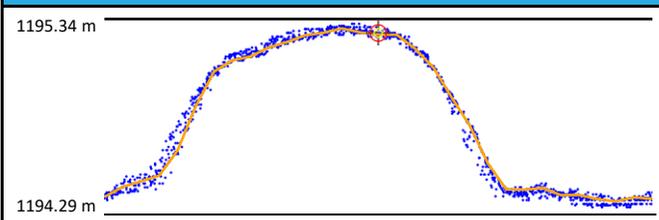
Project Context



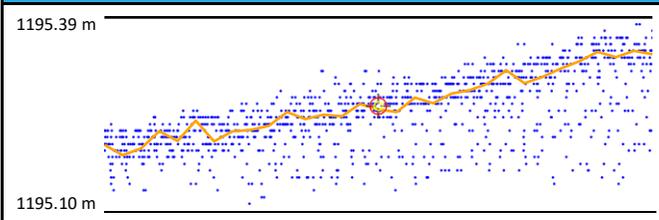
World Imagery



Cross Section - North to South



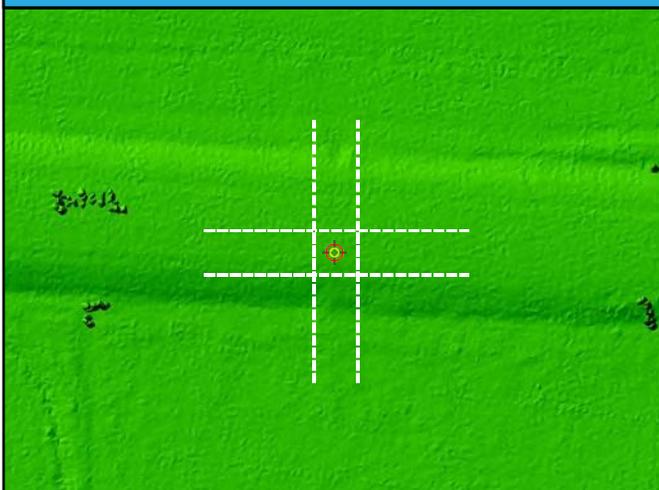
Cross Section - East to West



Intensity



LAS Points TIN



DEM

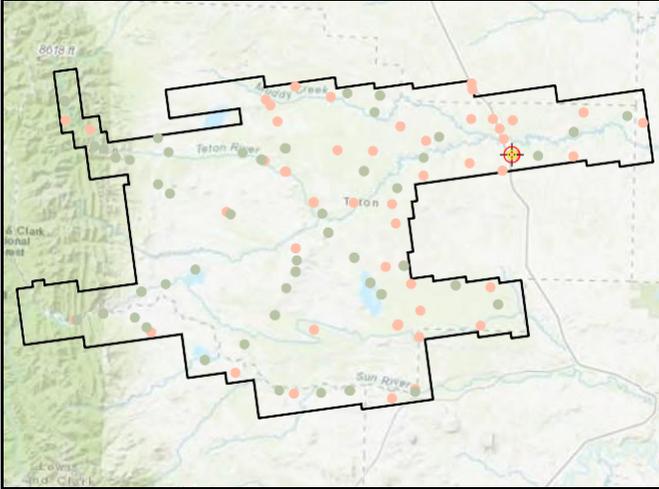


UA008

General	
Name	UA008
Type	NVA
Known Z	1078.39 m
DEM Dz	-0.01 cm

Ground (LAS Points)	
Dz	0.59 cm
Density	14.08 ppsm
Nearest	0.09 m
Slope	5.14°

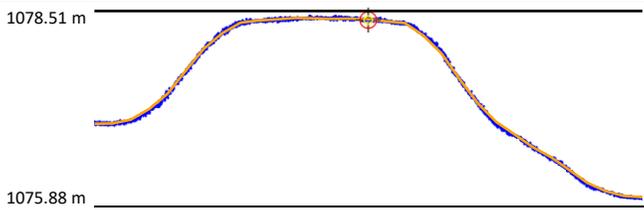
Project Context



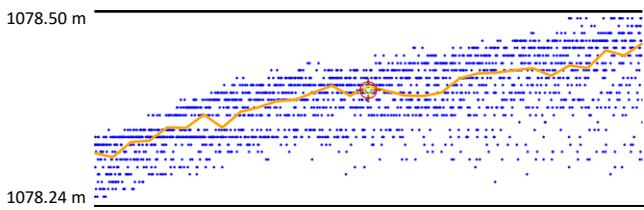
World Imagery



Cross Section - West to East



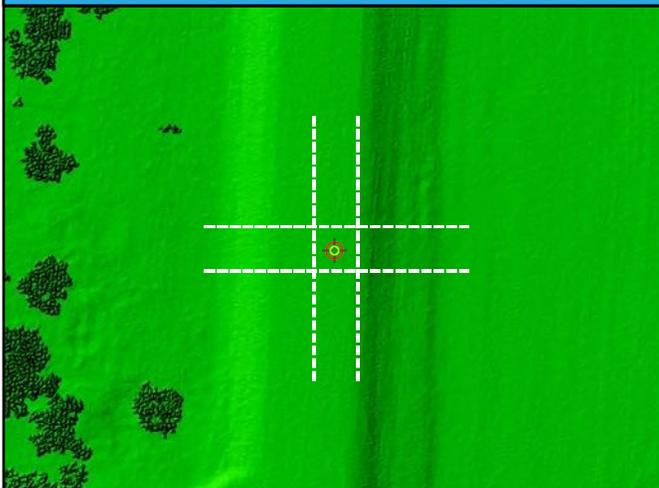
Cross Section - North to South



Intensity



LAS Points TIN



DEM

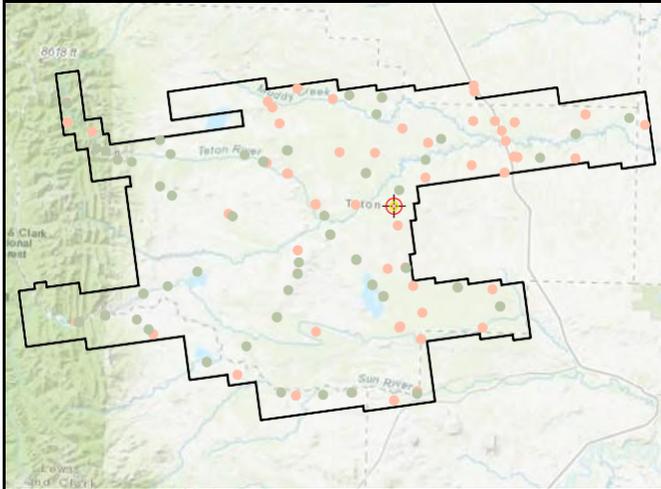


UA009

General	
Name	UA009
Type	NVA
Known Z	1147.93 m
DEM Dz	-0.01 cm

Ground (LAS Points)	
Dz	0.88 cm
Density	13.90 ppsm
Nearest	0.02 m
Slope	5.99°

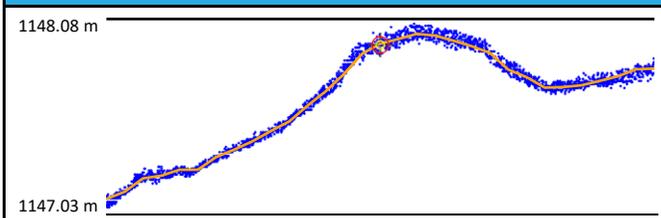
Project Context



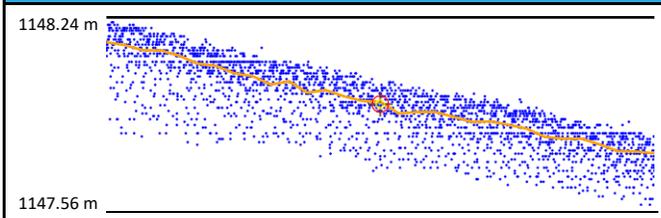
World Imagery



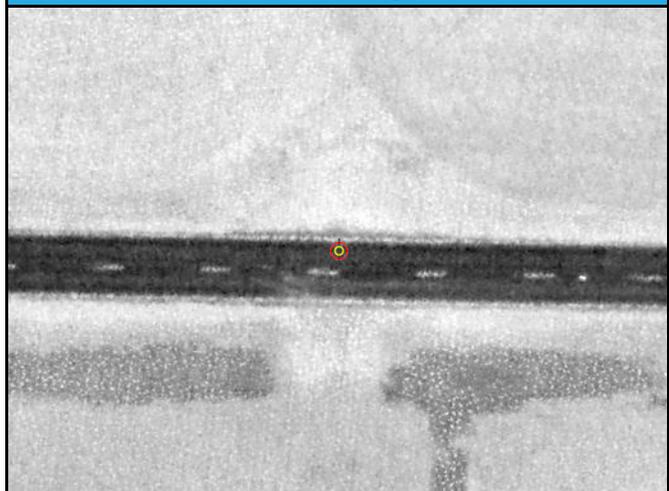
Cross Section - North to South



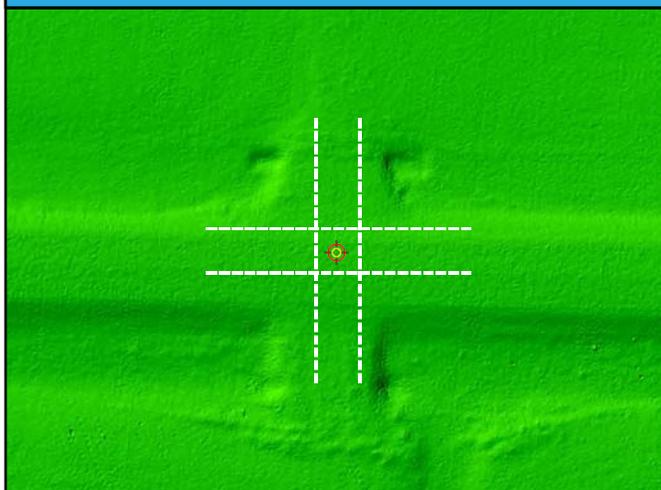
Cross Section - East to West



Intensity



LAS Points TIN



DEM

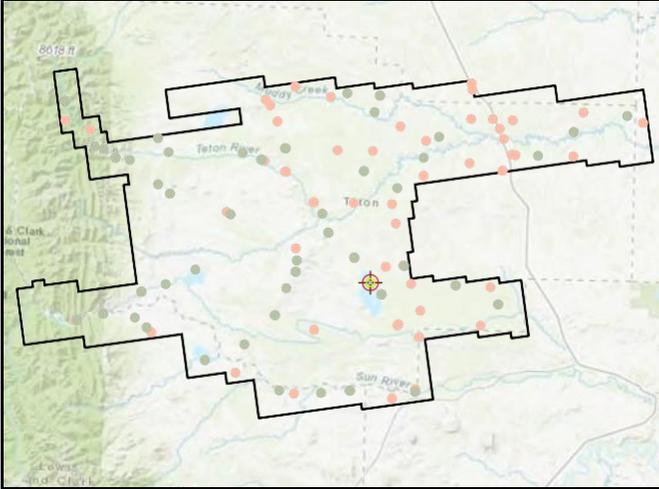


UA010

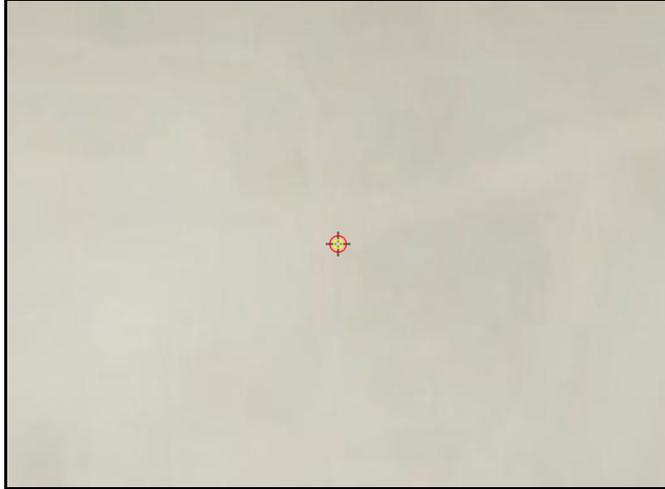
General	
Name	UA010
Type	NVA
Known Z	1150.39 m
DEM Dz	-0.11 cm

Ground (LAS Points)	
Dz	0.10 cm
Density	4.74 ppsm
Nearest	0.18 m
Slope	1.82°

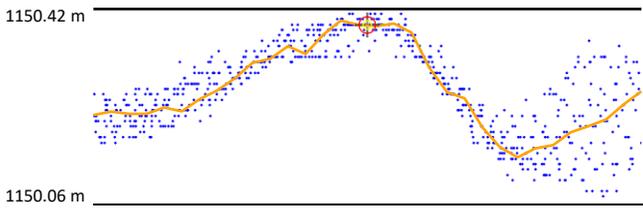
Project Context



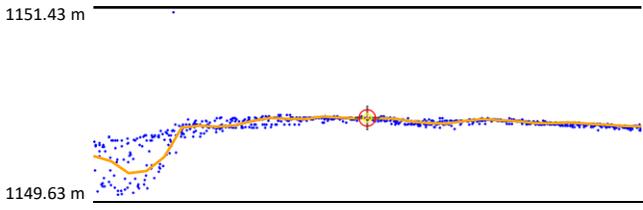
World Imagery



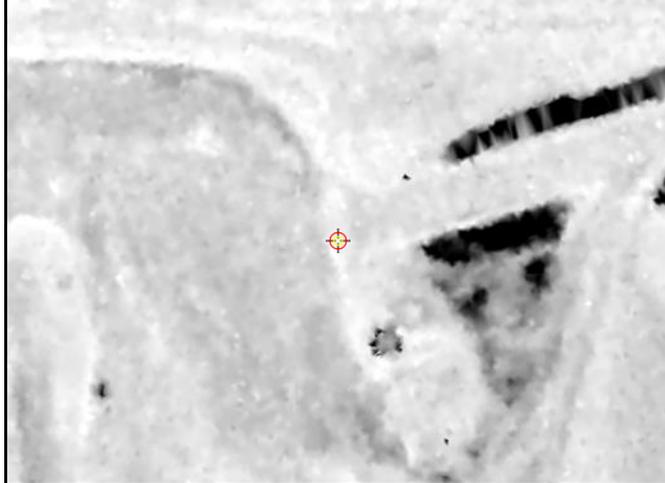
Cross Section - Northwest to Southeast



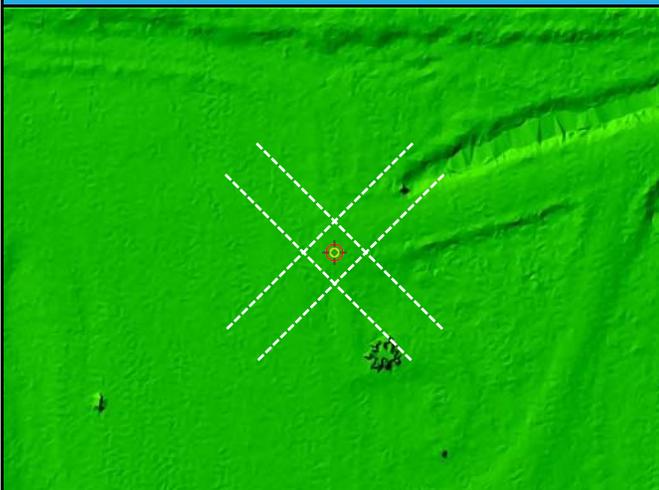
Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

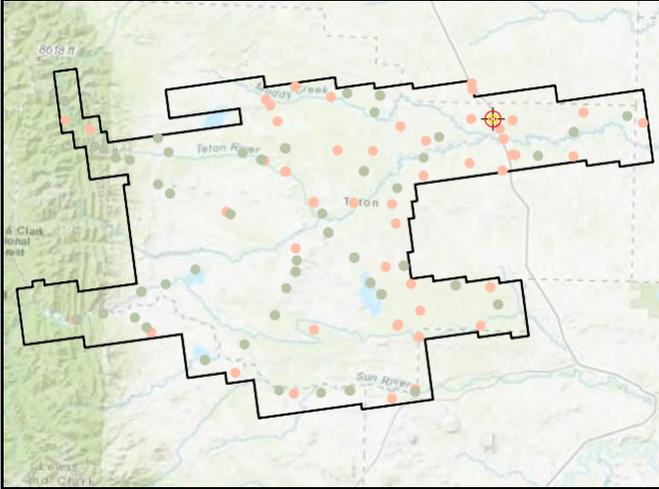


UA011

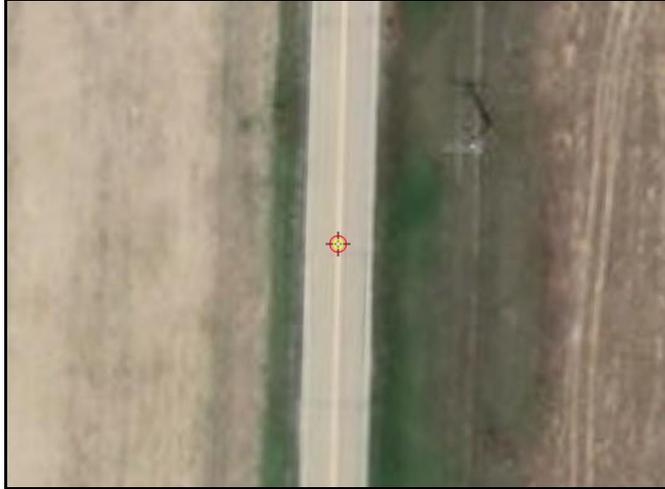
General	
Name	UA011
Type	NVA
Known Z	1071.16 m
DEM Dz	-1.43 cm

Ground (LAS Points)	
Dz	-0.79 cm
Density	18.64 ppsm
Nearest	0.02 m
Slope	3.72°

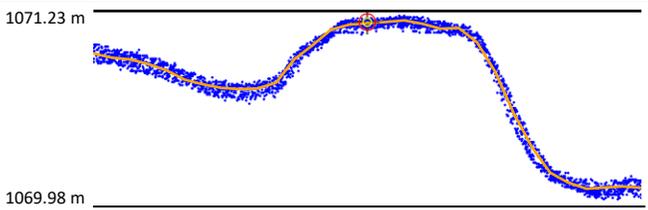
Project Context



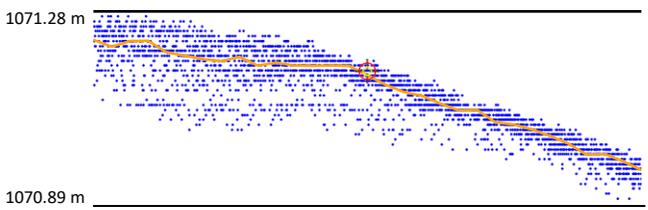
World Imagery



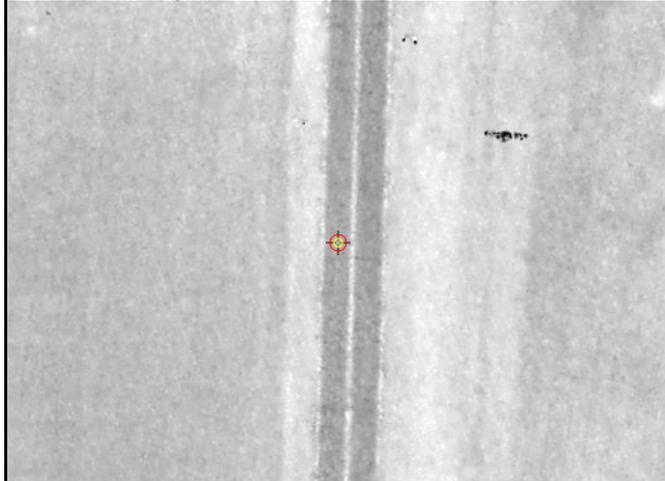
Cross Section - West to East



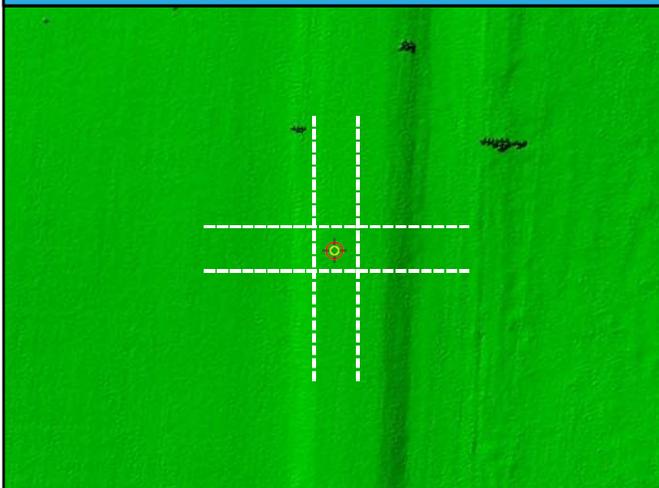
Cross Section - North to South



Intensity



LAS Points TIN



DEM

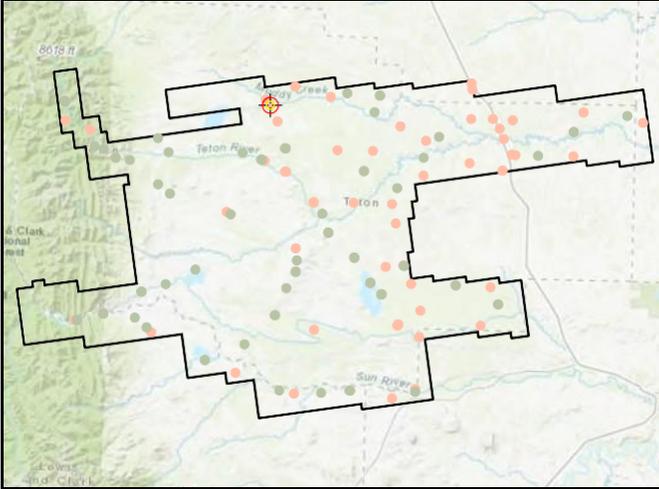


UA012

General	
Name	UA012
Type	NVA
Known Z	1206.17 m
DEM Dz	-4.07 cm

Ground (LAS Points)	
Dz	-4.72 cm
Density	14.08 ppsm
Nearest	0.16 m
Slope	2.86°

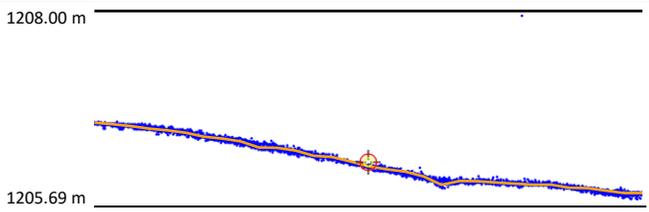
Project Context



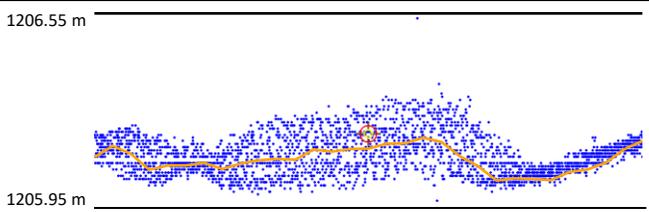
World Imagery



Cross Section - West to East



Cross Section - North to South



Intensity



LAS Points TIN



DEM

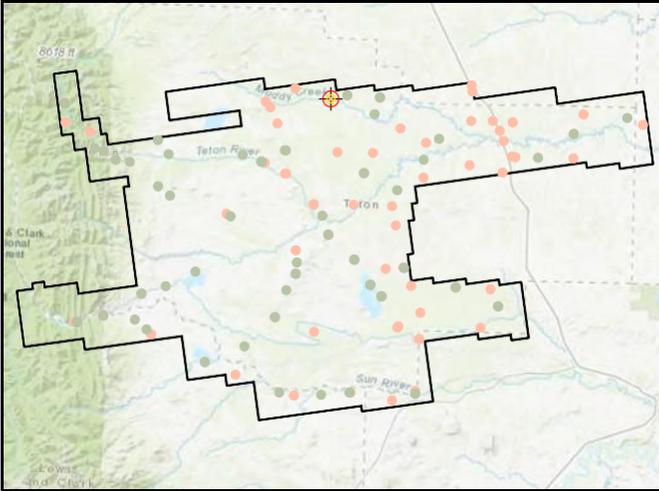


UA013

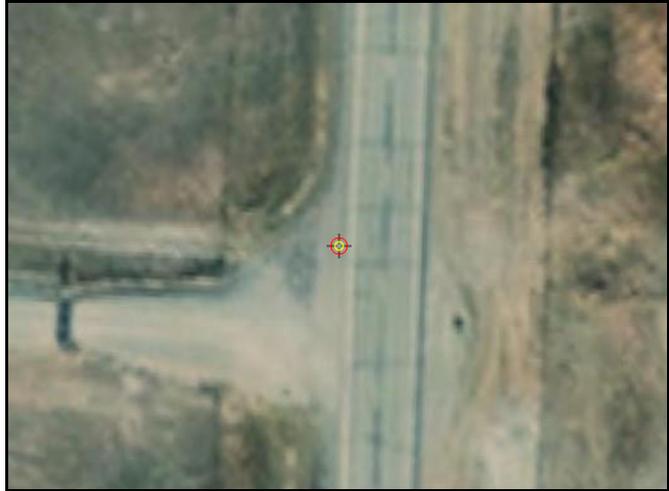
General	
Name	UA013
Type	NVA
Known Z	1156.08 m
DEM Dz	-4.50 cm

Ground (LAS Points)	
Dz	-4.62 cm
Density	15.24 ppsm
Nearest	0.23 m
Slope	4.57°

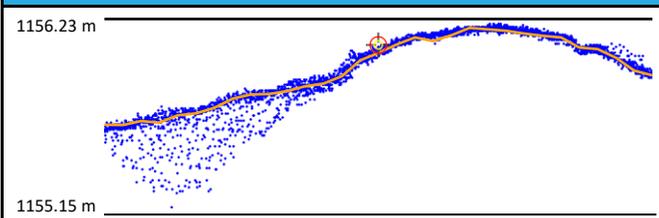
Project Context



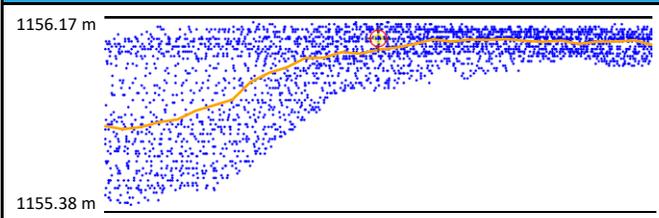
World Imagery



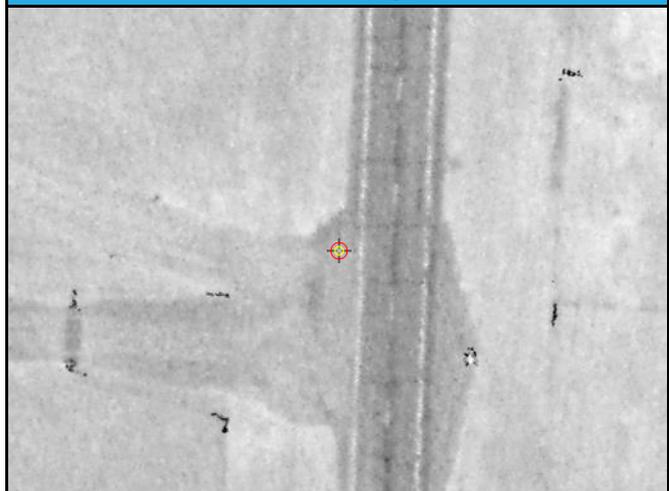
Cross Section - West to East



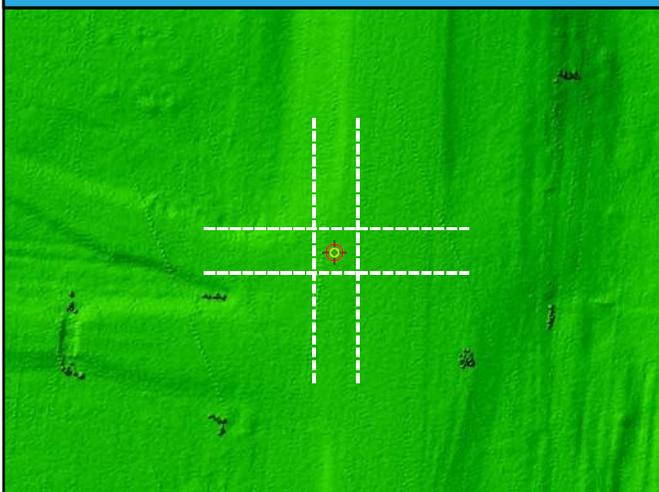
Cross Section - North to South



Intensity



LAS Points TIN



DEM

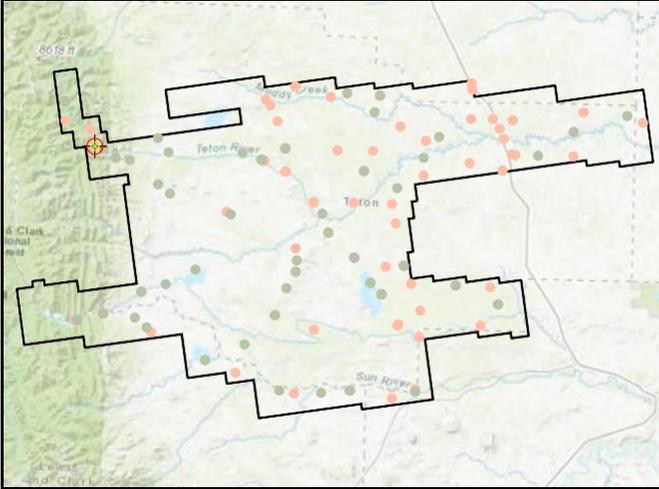


FR001

General	
Name	FR001
Type	VVA
Known Z	1581.11 m
DEM Dz	6.58 cm

Ground (LAS Points)	
Dz	7.83 cm
Density	5.02 ppsm
Nearest	0.32 m
Slope	4.00°

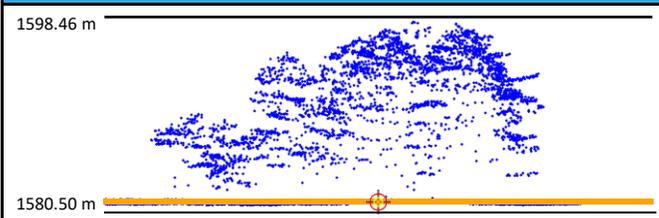
Project Context



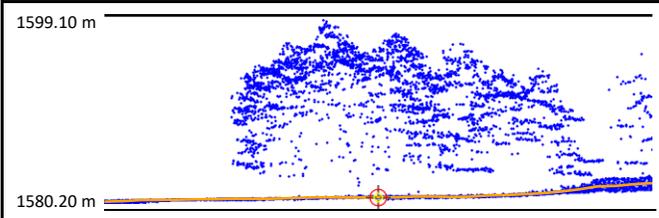
World Imagery



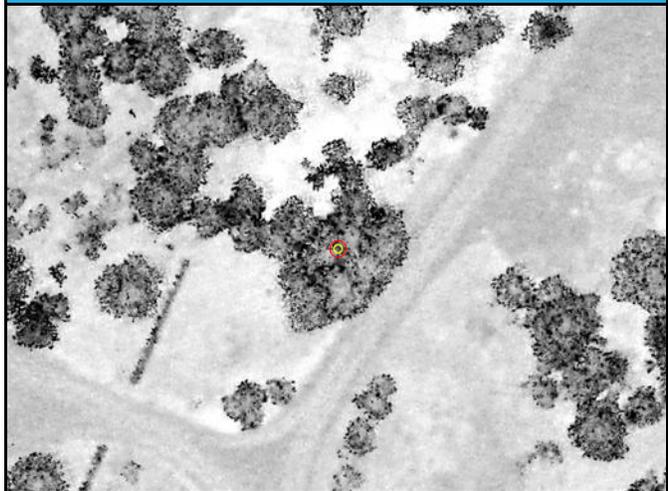
Cross Section - North to South



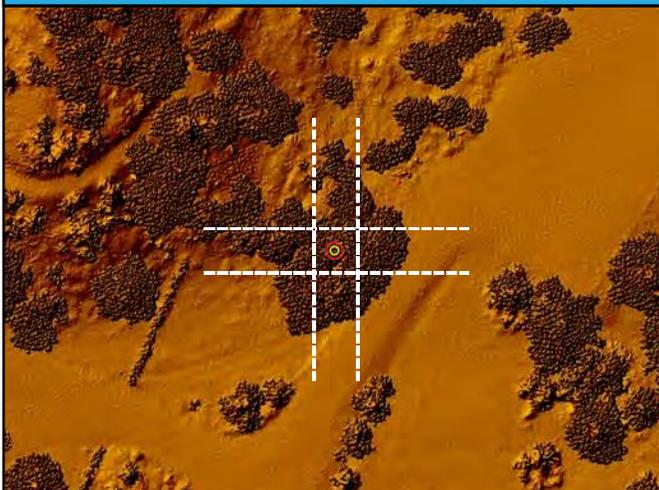
Cross Section - East to West



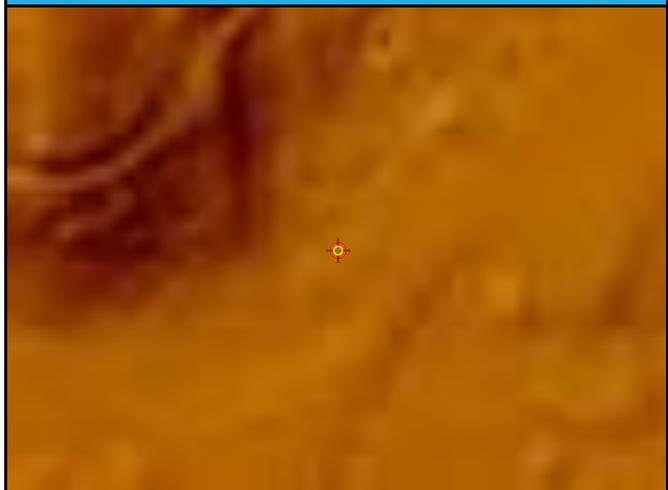
Intensity



LAS Points TIN



DEM

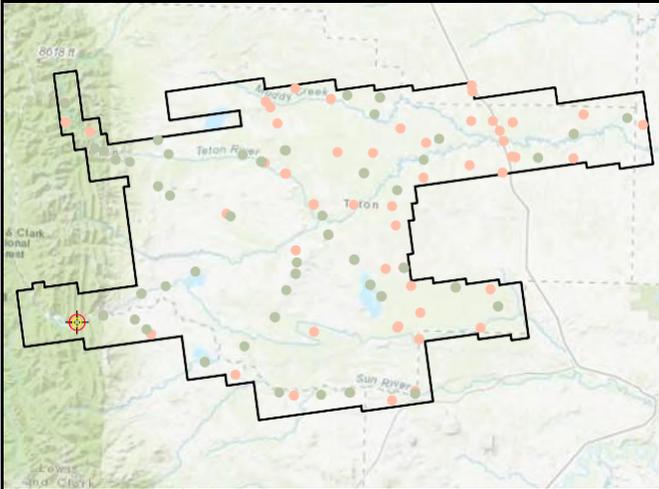


FR002

General	
Name	FR002
Type	VVA
Known Z	1389.79 m
DEM Dz	2.55 cm

Ground (LAS Points)	
Dz	1.46 cm
Density	4.03 ppsm
Nearest	0.25 m
Slope	2.23°

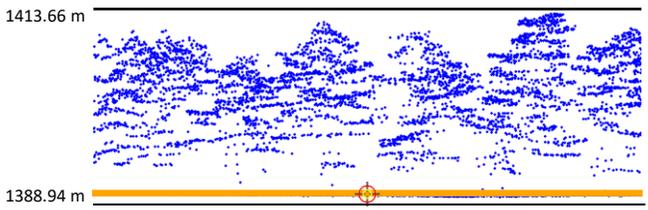
Project Context



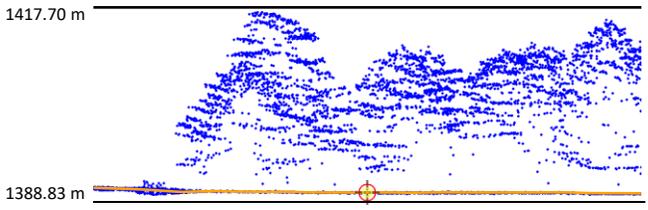
World Imagery



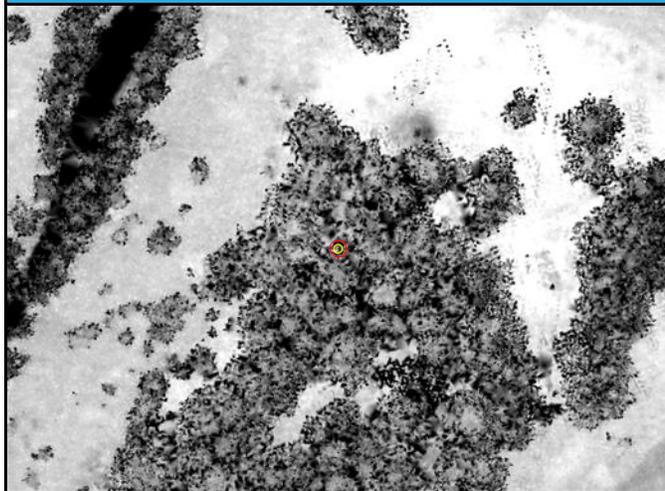
Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



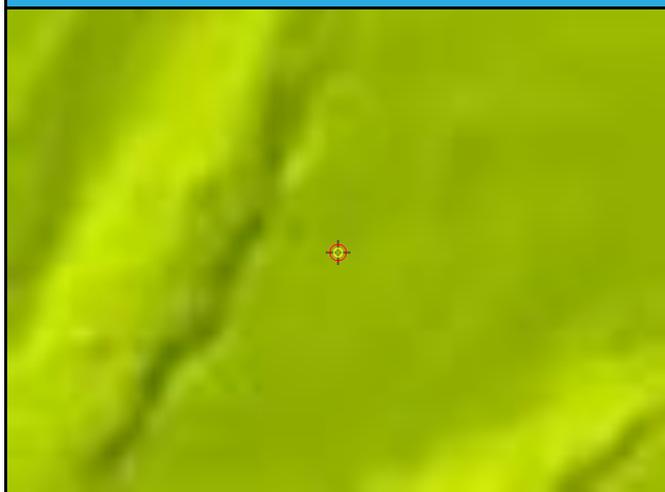
Intensity



LAS Points TIN



DEM

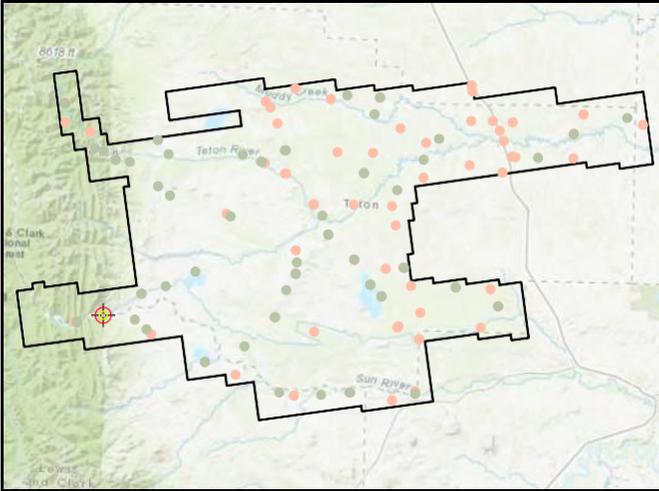


FR003

General	
Name	FR003
Type	VVA
Known Z	1361.15 m
DEM Dz	-0.70 cm

Ground (LAS Points)	
Dz	-0.21 cm
Density	9.05 ppsm
Nearest	0.15 m
Slope	1.15°

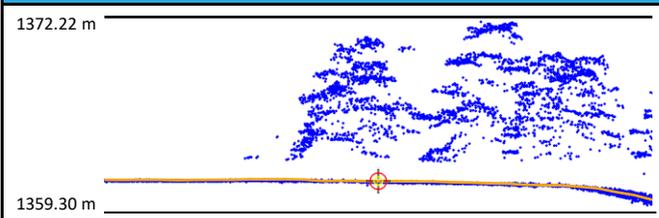
Project Context



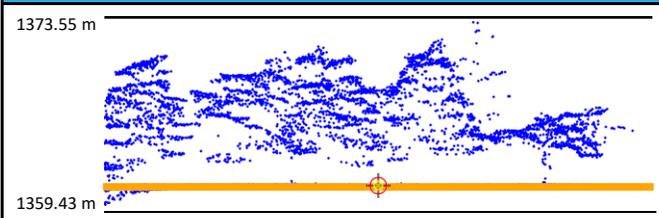
World Imagery



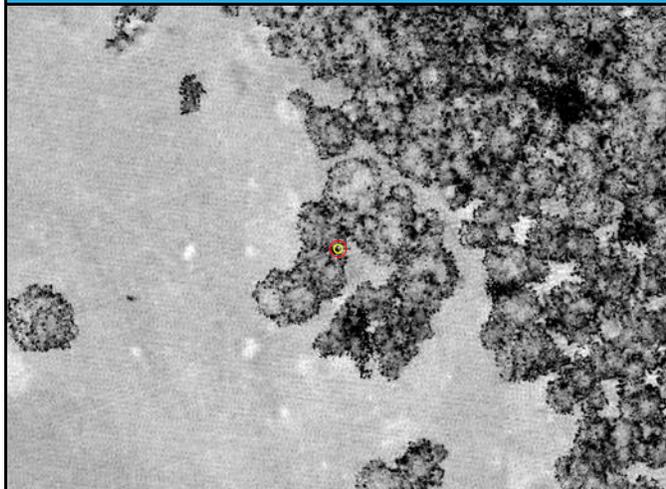
Cross Section - West to East



Cross Section - North to South



Intensity



LAS Points TIN



DEM

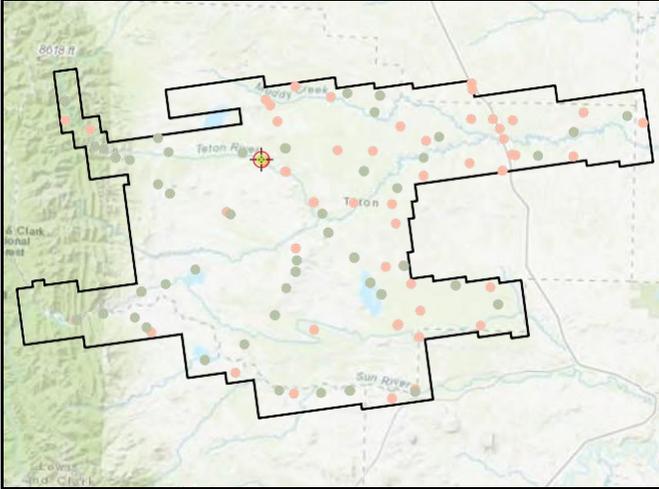


FR004

General	
Name	FR004
Type	VVA
Known Z	1258.84 m
DEM Dz	1.58 cm

Ground (LAS Points)	
Dz	0.23 cm
Density	11.92 ppsm
Nearest	0.02 m
Slope	1.42°

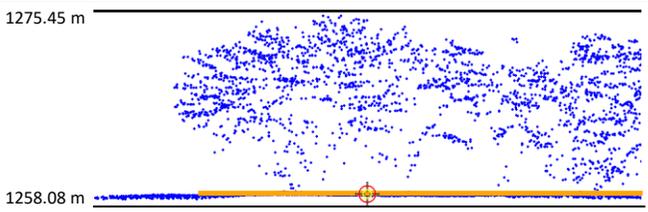
Project Context



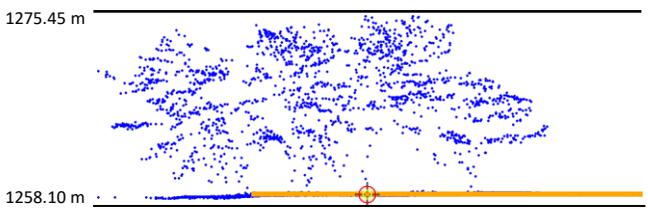
World Imagery



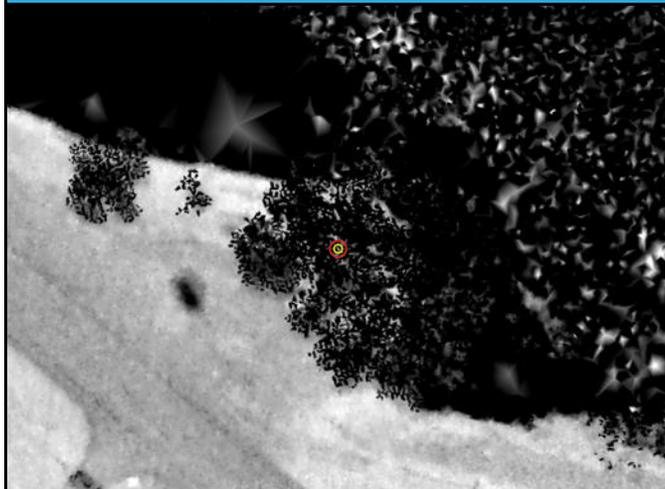
Cross Section - Northwest to Southeast



Cross Section - Northeast to Southwest



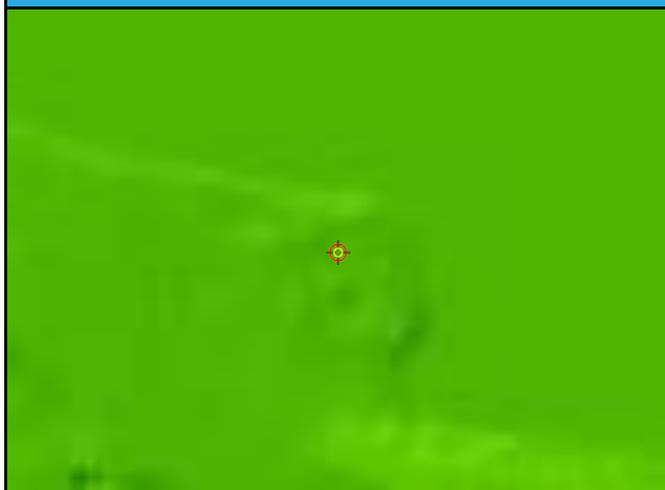
Intensity



LAS Points TIN



DEM

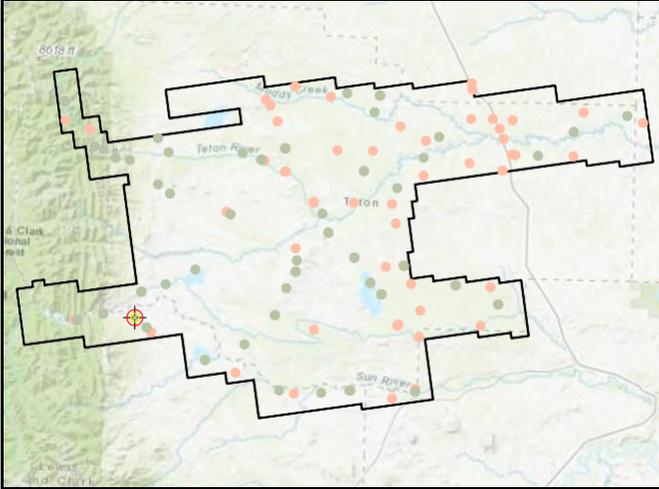


SH001

General	
Name	SH001
Type	VVA
Known Z	1324.96 m
DEM Dz	17.14 cm

Ground (LAS Points)	
Dz	25.23 cm
Density	16.30 ppsm
Nearest	0.16 m
Slope	9.37°

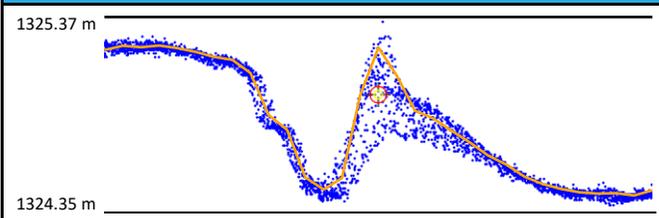
Project Context



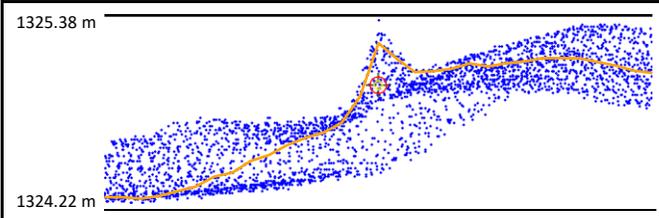
World Imagery



Cross Section - North to South



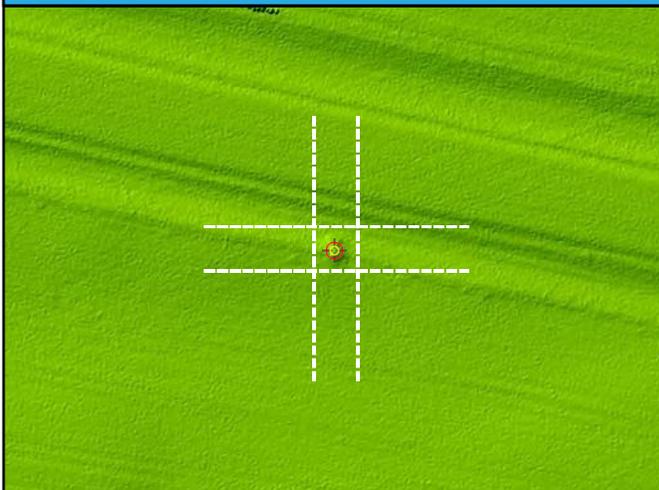
Cross Section - East to West



Intensity



LAS Points TIN



DEM

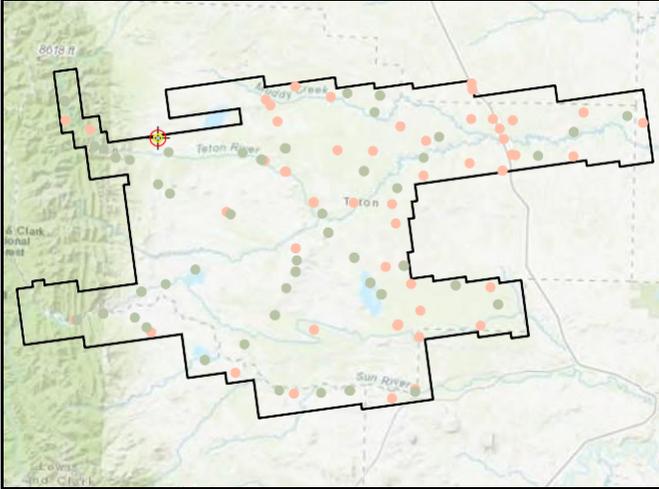


SH002

General	
Name	SH002
Type	VVA
Known Z	1442.06 m
DEM Dz	33.57 cm

Ground (LAS Points)	
Dz	34.68 cm
Density	17.08 ppsm
Nearest	0.44 m
Slope	2.02°

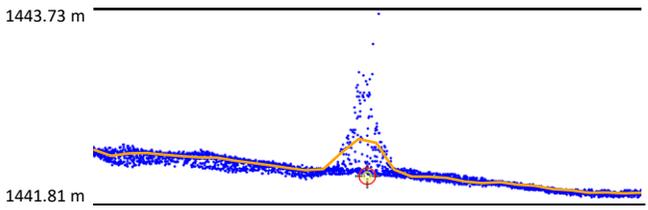
Project Context



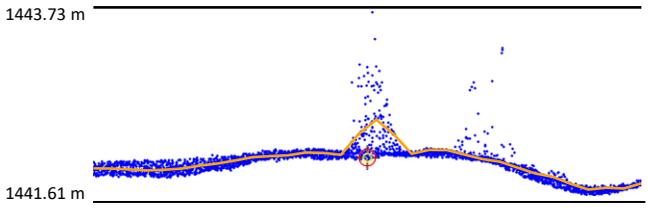
World Imagery



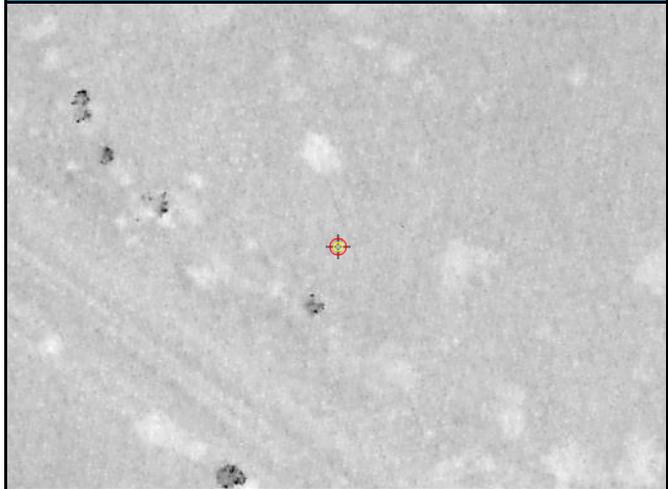
Cross Section - Northwest to Southeast



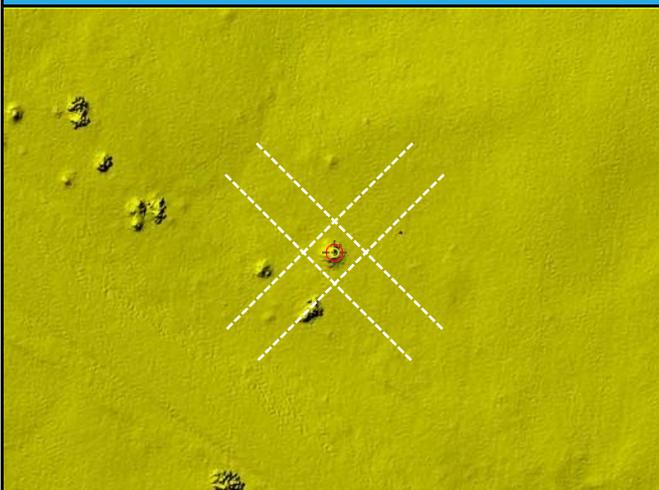
Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

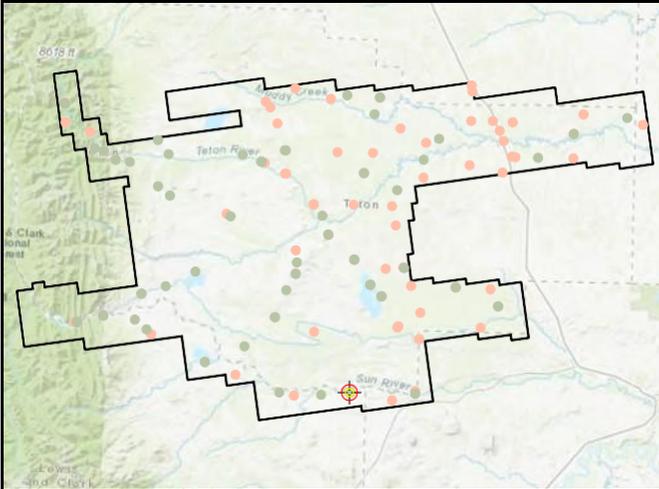


SH003

General	
Name	SH003
Type	VVA
Known Z	1137.51 m
DEM Dz	8.72 cm

Ground (LAS Points)	
Dz	6.23 cm
Density	16.23 ppsm
Nearest	0.16 m
Slope	9.09°

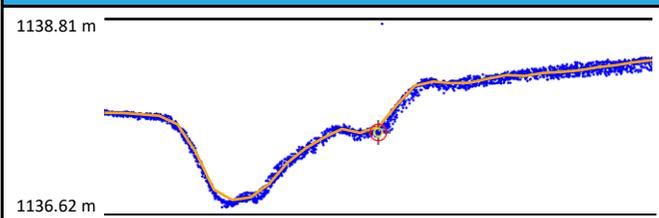
Project Context



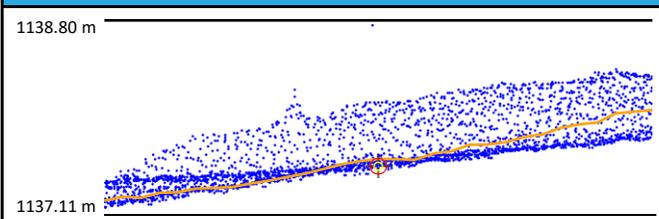
World Imagery



Cross Section - North to South



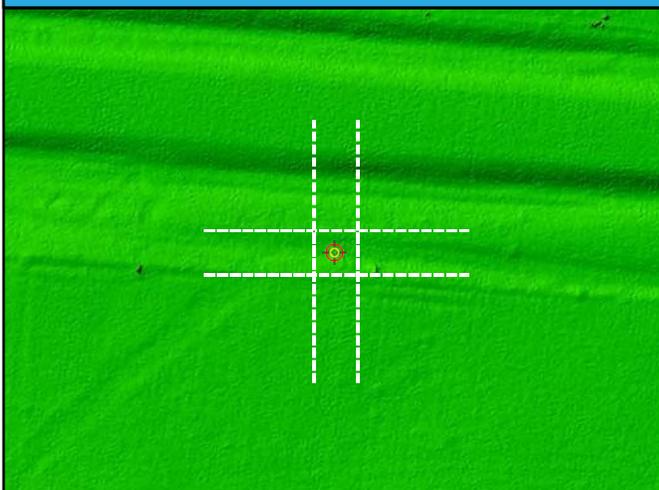
Cross Section - East to West



Intensity



LAS Points TIN



DEM

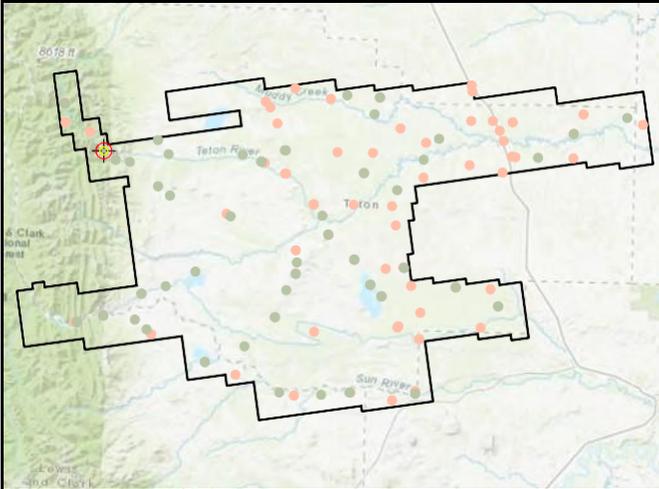


SH004

General	
Name	SH004
Type	VVA
Known Z	1557.50 m
DEM Dz	9.79 cm

Ground (LAS Points)	
Dz	9.77 cm
Density	14.71 ppsm
Nearest	0.89 m
Slope	14.66°

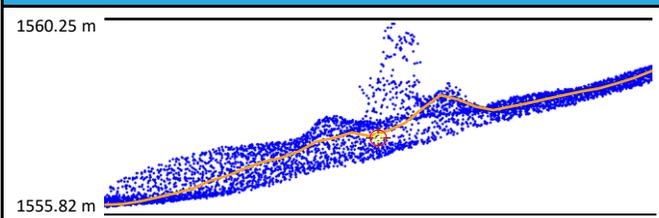
Project Context



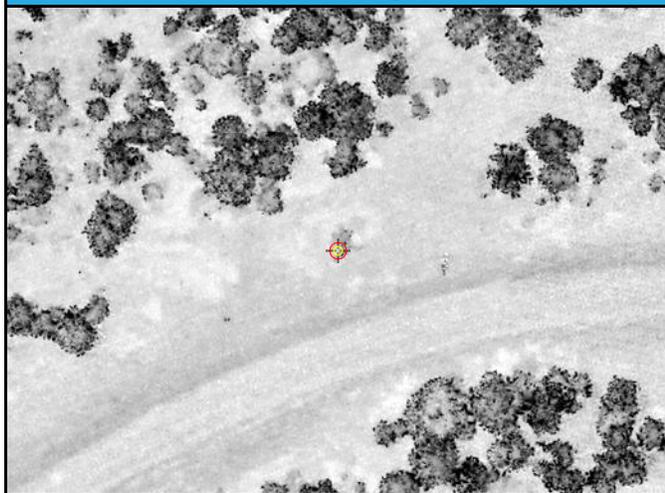
World Imagery



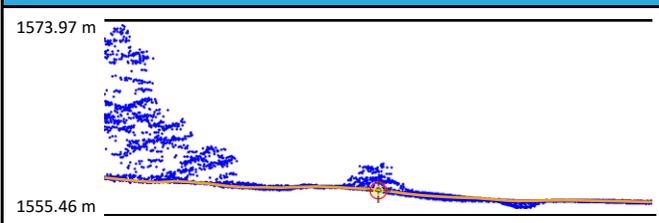
Cross Section - Southwest to Northeast



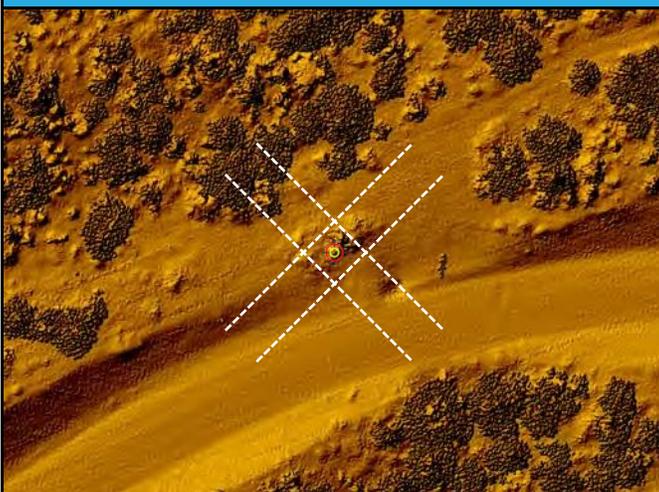
Intensity



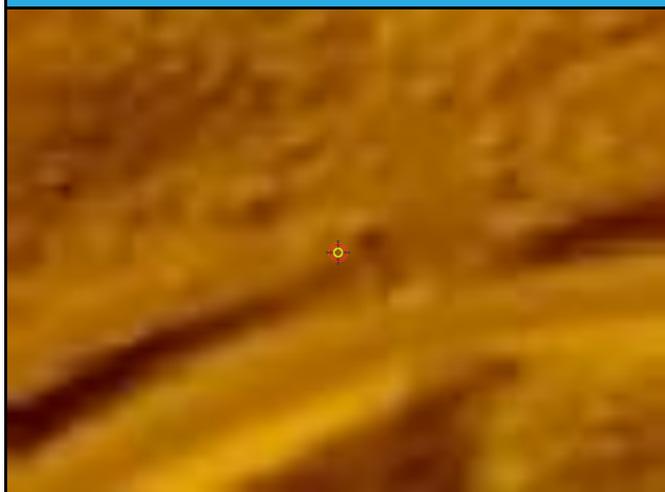
Cross Section - Northwest to Southeast



LAS Points TIN



DEM

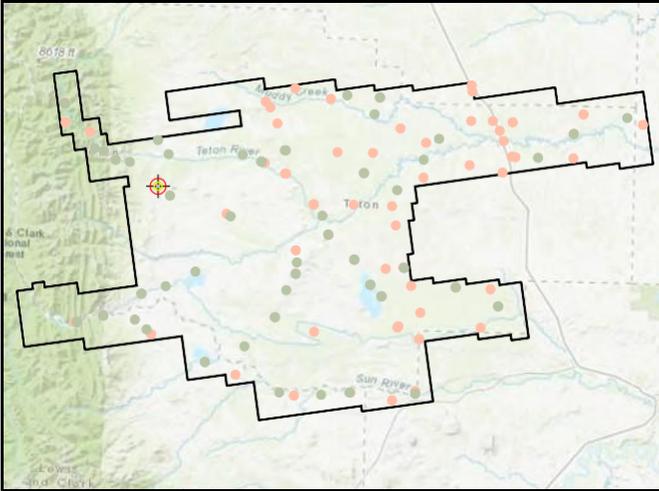


SH005

General	
Name	SH005
Type	VVA
Known Z	1401.99 m
DEM Dz	13.23 cm

Ground (LAS Points)	
Dz	11.19 cm
Density	19.38 ppsm
Nearest	0.09 m
Slope	6.45°

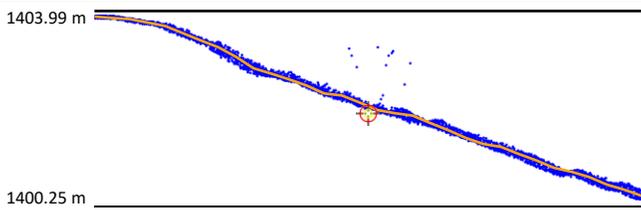
Project Context



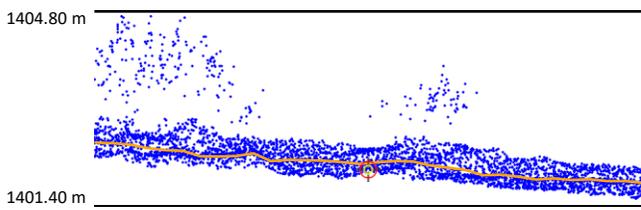
World Imagery



Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

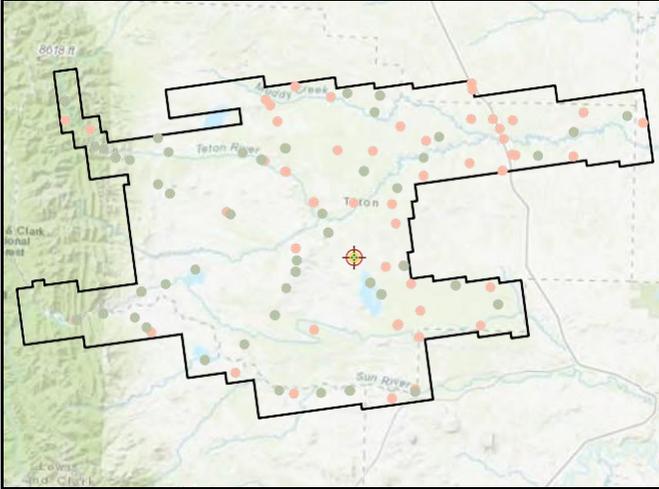


SH006

General	
Name	SH006
Type	VVA
Known Z	1150.46 m
DEM Dz	20.41 cm

Ground (LAS Points)	
Dz	21.04 cm
Density	3.61 ppsm
Nearest	0.21 m
Slope	3.15°

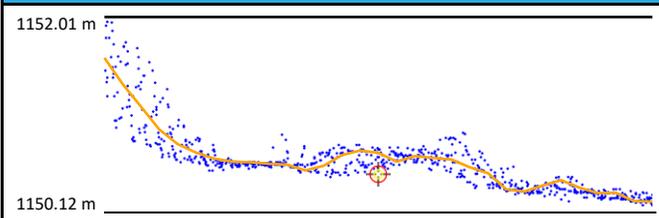
Project Context



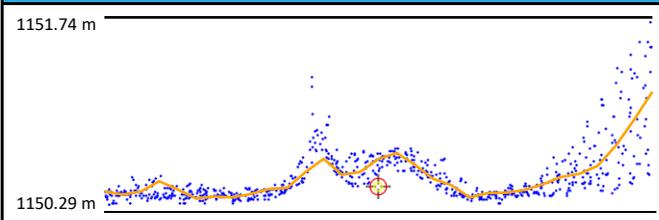
World Imagery



Cross Section - West to East



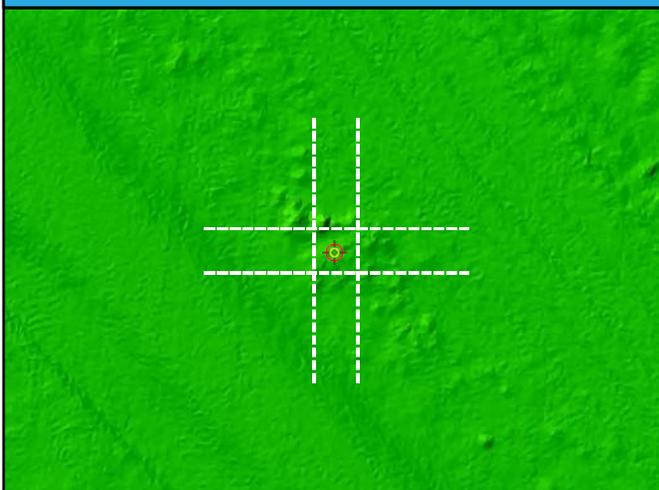
Cross Section - North to South



Intensity



LAS Points TIN



DEM

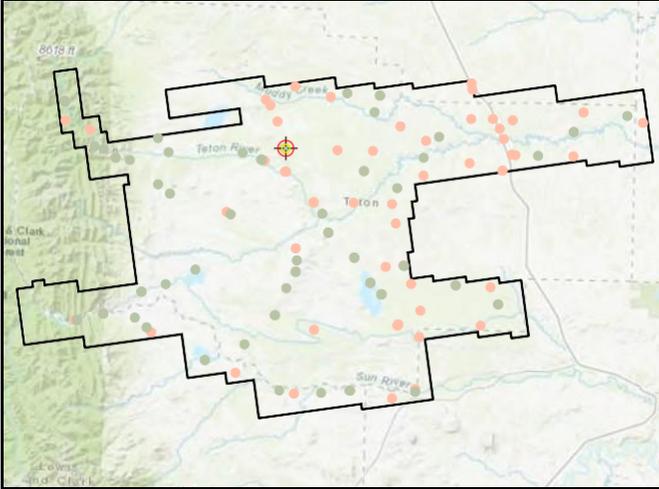


SH007

General	
Name	SH007
Type	VVA
Known Z	1226.99 m
DEM Dz	13.67 cm

Ground (LAS Points)	
Dz	13.92 cm
Density	11.95 ppsm
Nearest	0.09 m
Slope	7.69°

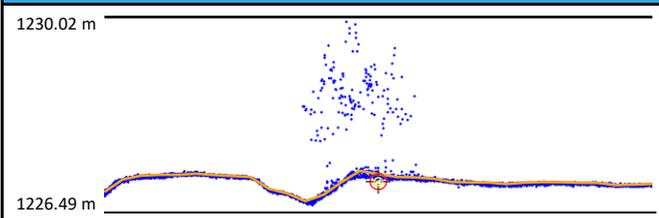
Project Context



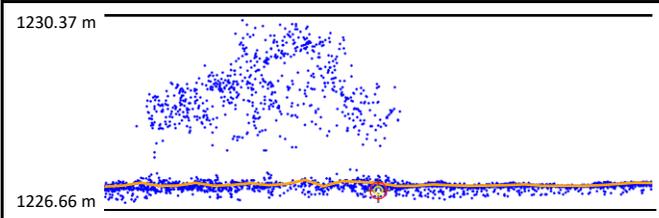
World Imagery



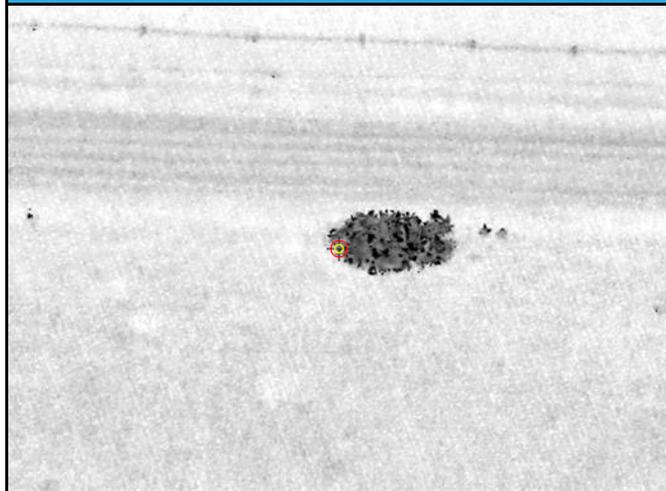
Cross Section - North to South



Cross Section - East to West



Intensity



LAS Points TIN



DEM

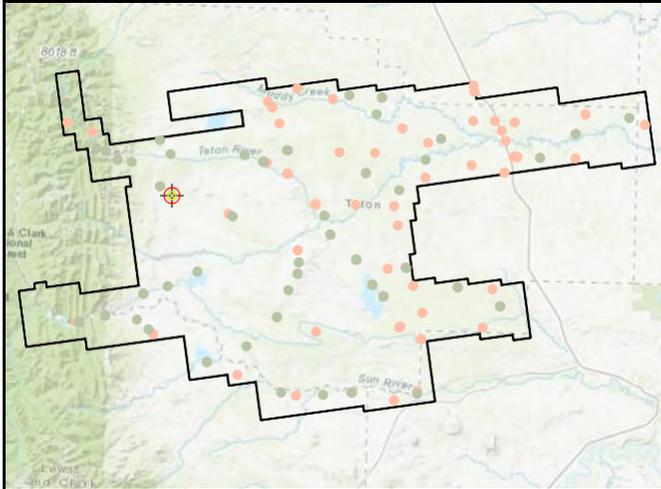


SH008

General	
Name	SH008
Type	VVA
Known Z	1382.16 m
DEM Dz	2.00 cm

Ground (LAS Points)	
Dz	2.06 cm
Density	8.42 ppsm
Nearest	0.15 m
Slope	3.15°

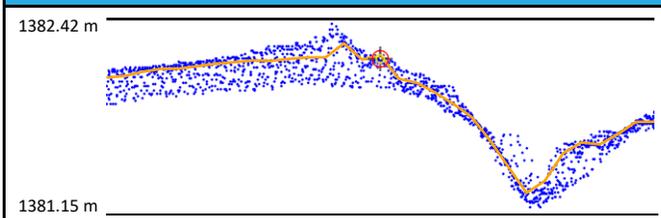
Project Context



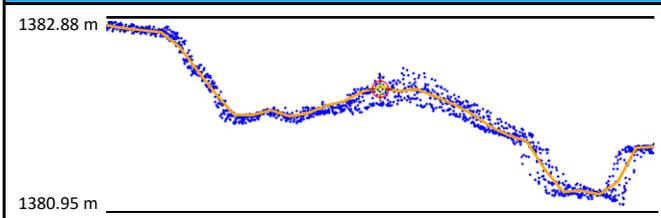
World Imagery



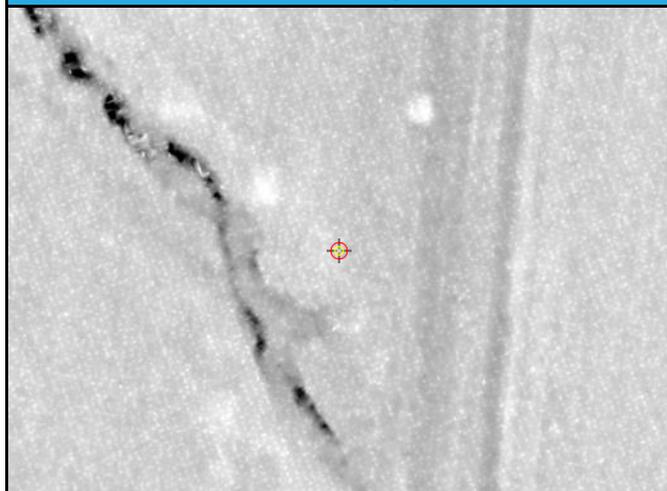
Cross Section - North to South



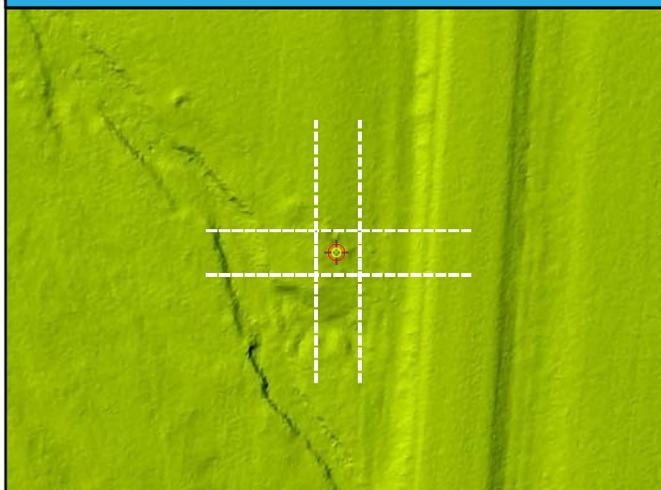
Cross Section - East to West



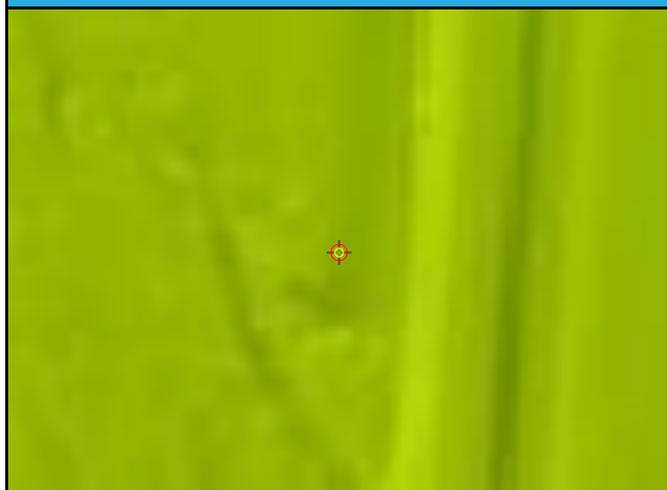
Intensity



LAS Points TIN



DEM

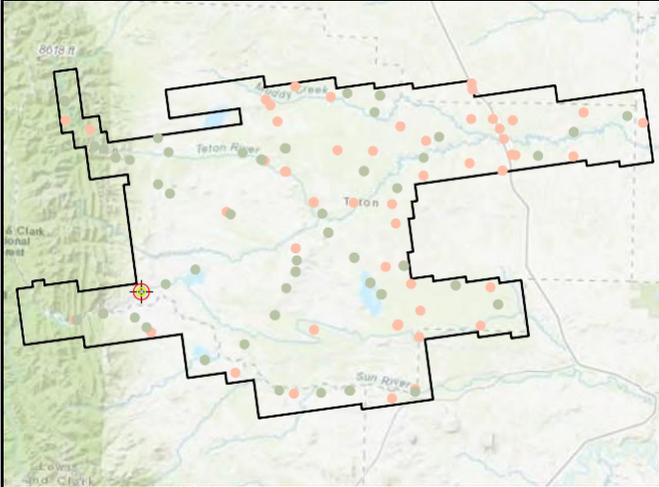


SH009

General	
Name	SH009
Type	VVA
Known Z	1354.19 m
DEM Dz	2.87 cm

Ground (LAS Points)	
Dz	3.47 cm
Density	27.91 ppsm
Nearest	0.59 m
Slope	3.72°

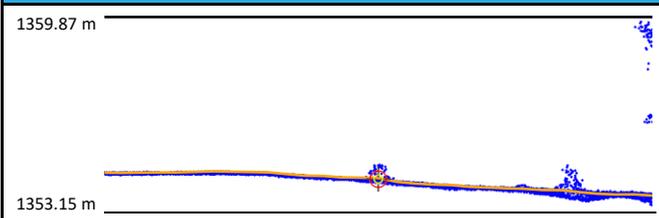
Project Context



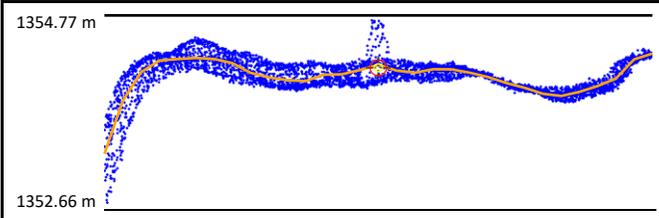
World Imagery



Cross Section - North to South



Cross Section - East to West



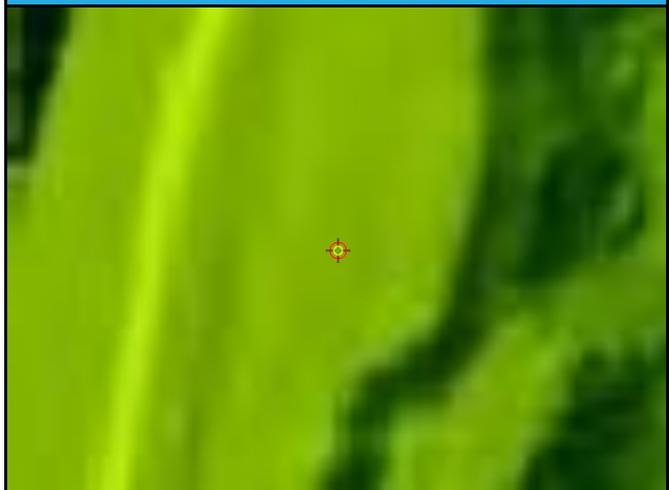
Intensity



LAS Points TIN



DEM

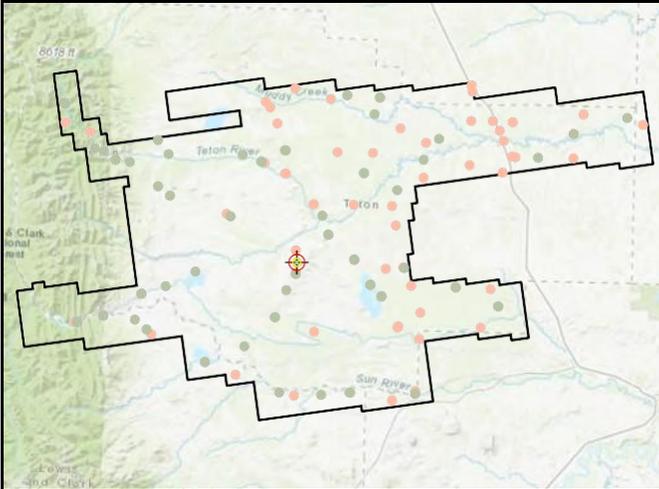


SH010

General	
Name	SH010
Type	VVA
Known Z	1337.11 m
DEM Dz	13.04 cm

Ground (LAS Points)	
Dz	14.33 cm
Density	13.30 ppsm
Nearest	0.15 m
Slope	7.41°

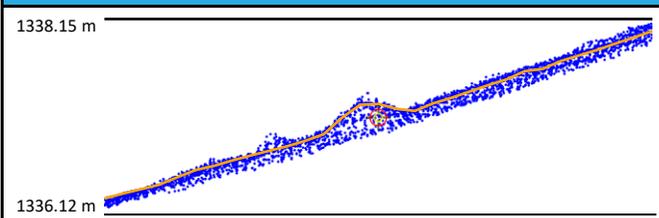
Project Context



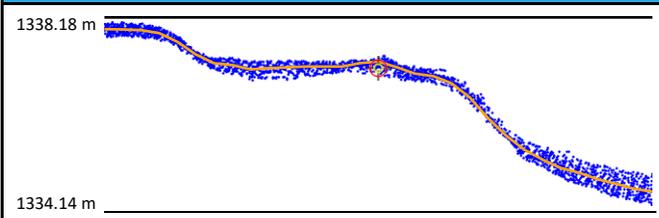
World Imagery



Cross Section - North to South



Cross Section - East to West



Intensity



LAS Points TIN



DEM

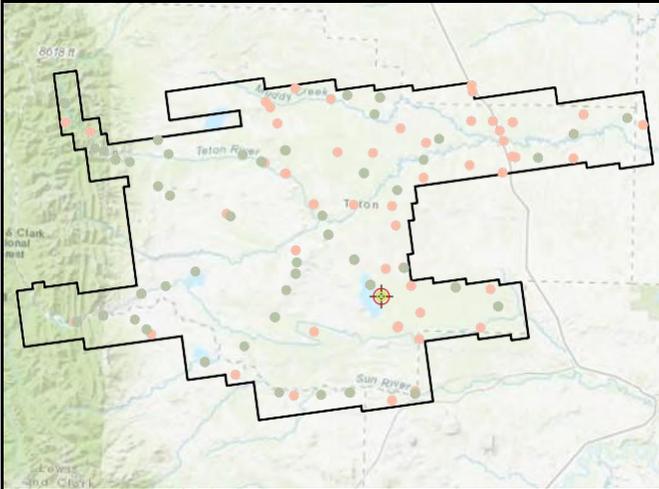


SH011

General	
Name	SH011
Type	VVA
Known Z	1151.89 m
DEM Dz	11.95 cm

Ground (LAS Points)	
Dz	11.50 cm
Density	2.69 ppsm
Nearest	0.26 m
Slope	2.58°

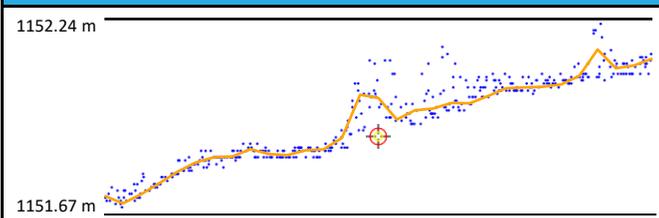
Project Context



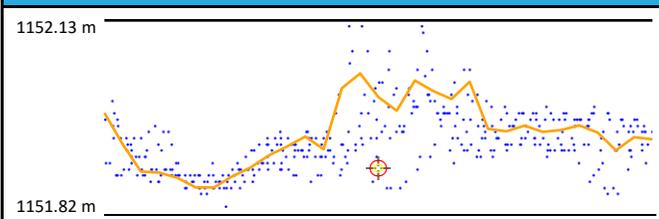
World Imagery



Cross Section - West to East



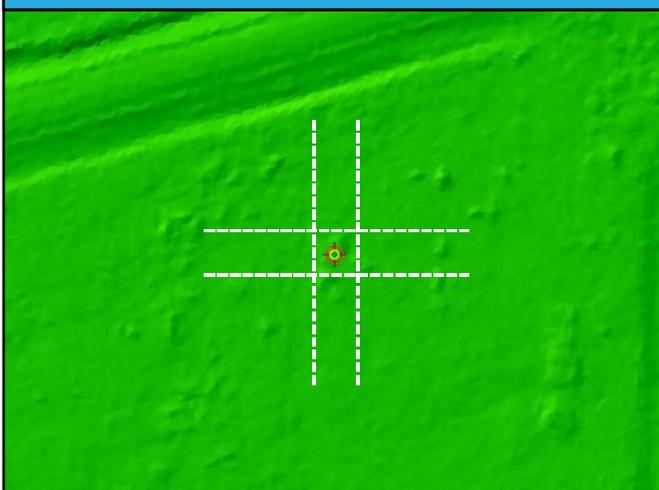
Cross Section - North to South



Intensity



LAS Points TIN



DEM

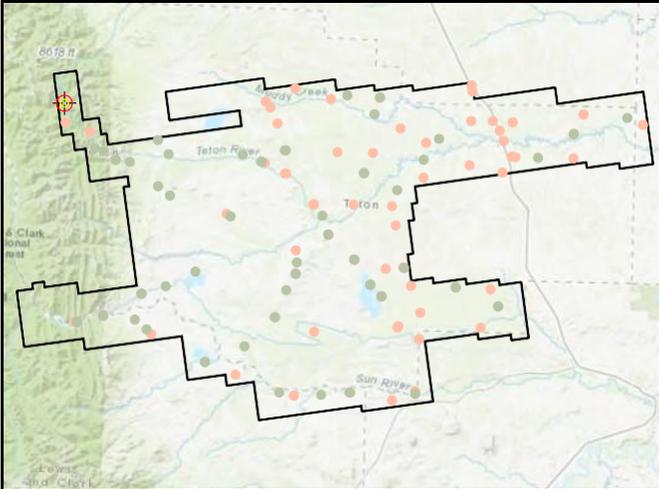


SH012

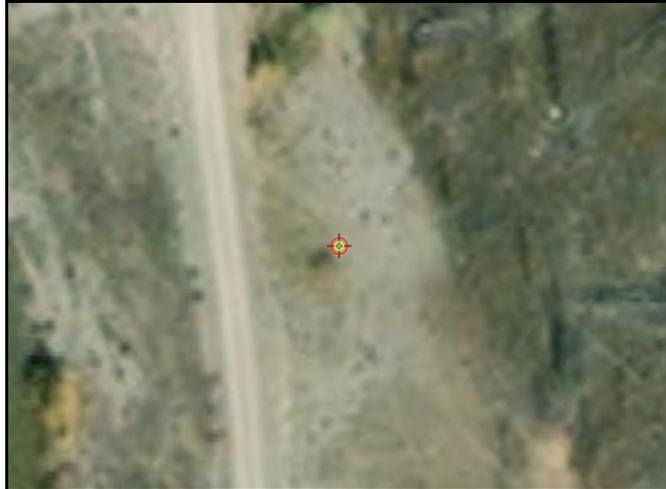
General	
Name	SH012
Type	VVA
Known Z	1714.36 m
DEM Dz	21.94 cm

Ground (LAS Points)	
Dz	21.55 cm
Density	9.94 ppsm
Nearest	0.36 m
Slope	3.15°

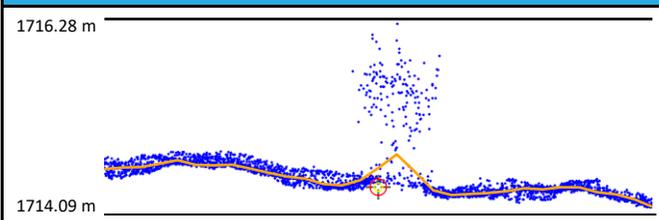
Project Context



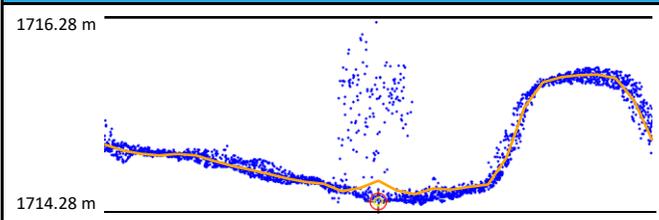
World Imagery



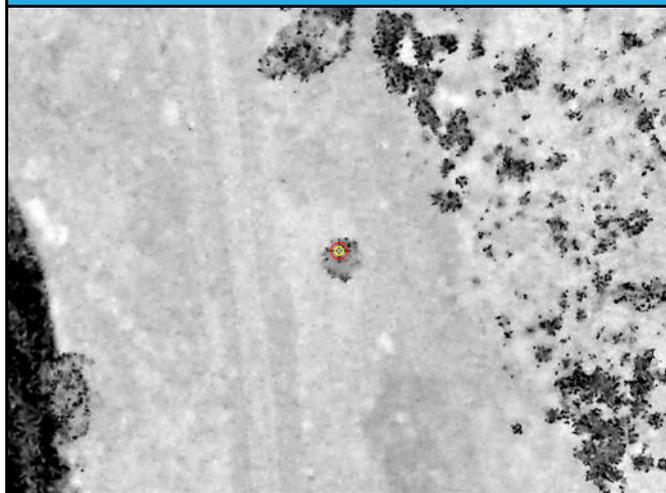
Cross Section - North to South



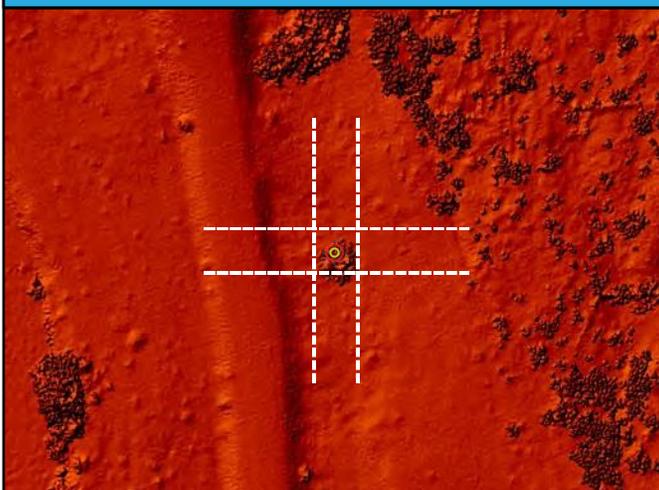
Cross Section - East to West



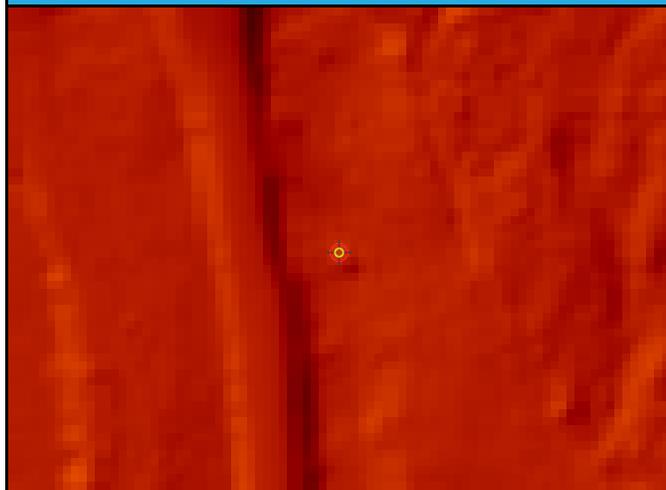
Intensity



LAS Points TIN



DEM

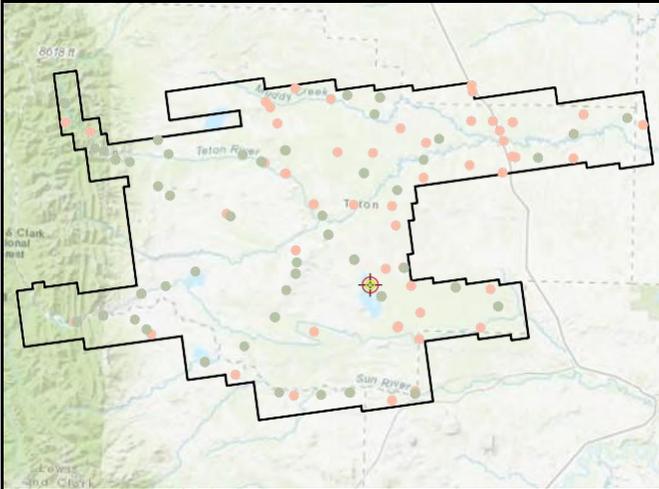


TG001

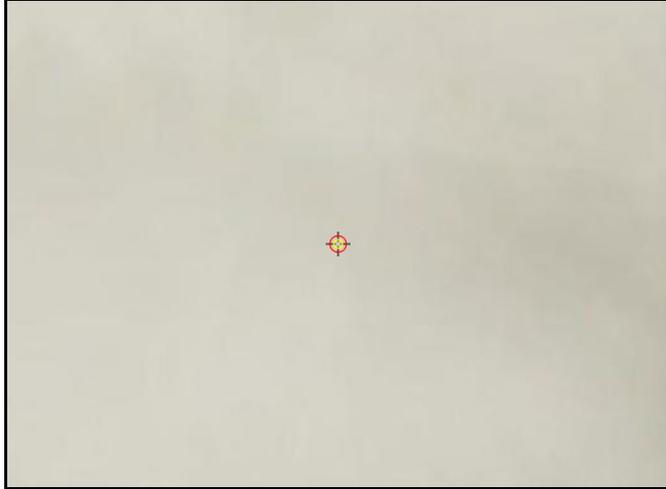
General	
Name	TG001
Type	VVA
Known Z	1150.01 m
DEM Dz	14.29 cm

Ground (LAS Points)	
Dz	16.21 cm
Density	4.53 ppsm
Nearest	0.21 m
Slope	3.15°

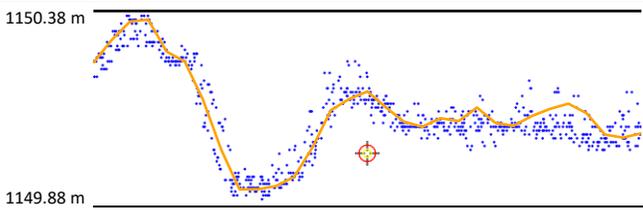
Project Context



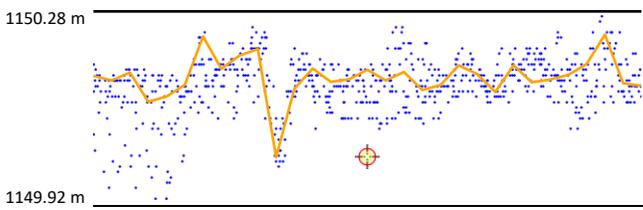
World Imagery



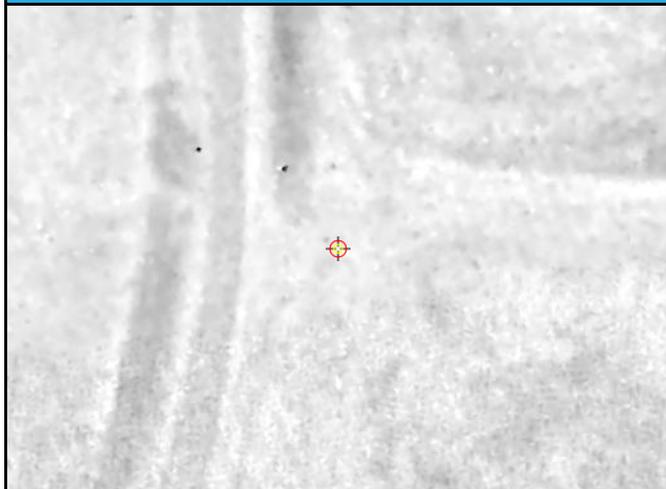
Cross Section - West to East



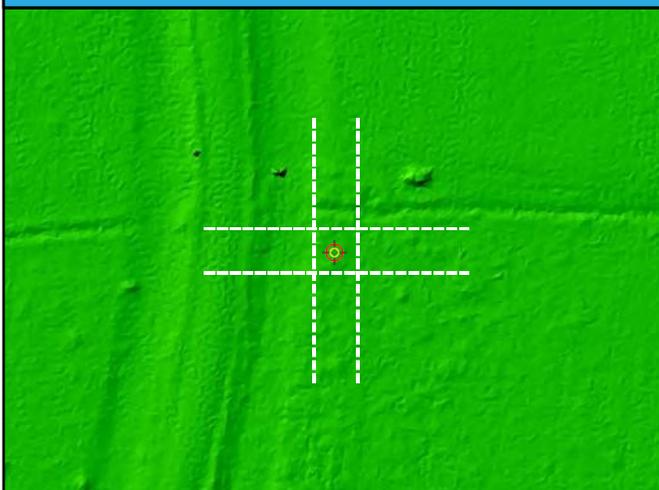
Cross Section - North to South



Intensity



LAS Points TIN



DEM

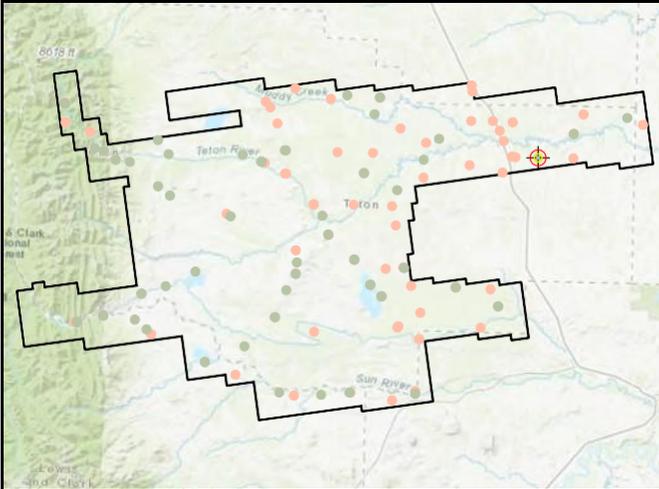


TG002

General	
Name	TG002
Type	VVA
Known Z	1071.38 m
DEM Dz	2.87 cm

Ground (LAS Points)	
Dz	5.19 cm
Density	12.73 ppsm
Nearest	0.04 m
Slope	4.57°

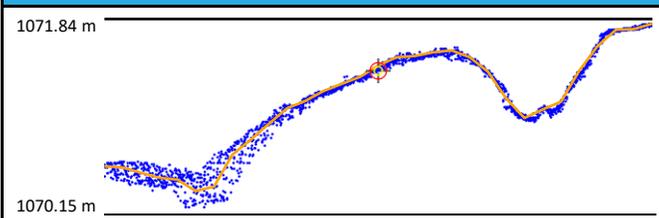
Project Context



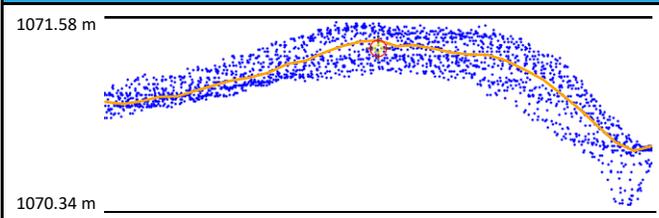
World Imagery



Cross Section - West to East



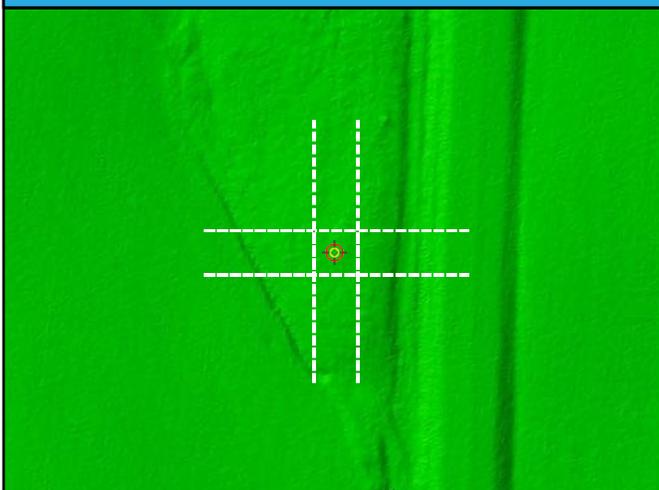
Cross Section - North to South



Intensity



LAS Points TIN



DEM

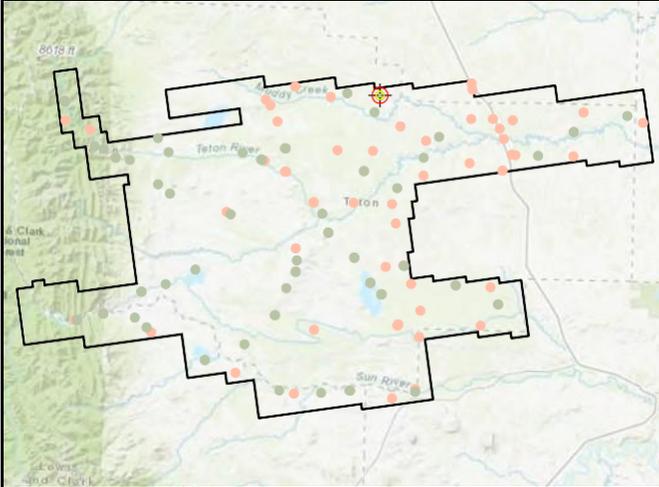


TG003

General	
Name	TG003
Type	VVA
Known Z	1149.65 m
DEM Dz	2.38 cm

Ground (LAS Points)	
Dz	3.02 cm
Density	13.90 ppsm
Nearest	0.10 m
Slope	1.43°

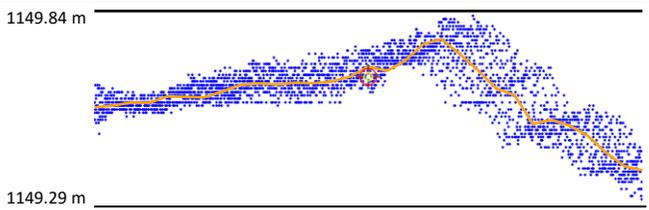
Project Context



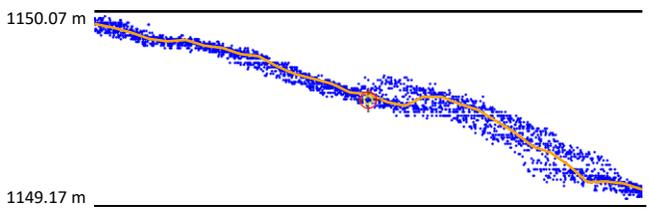
World Imagery



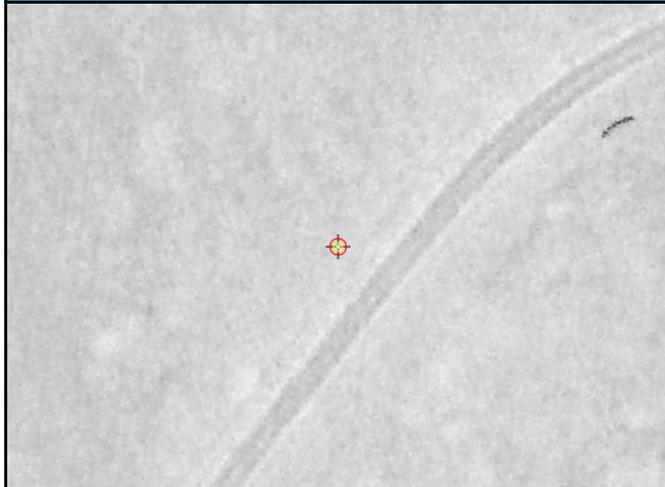
Cross Section - West to East



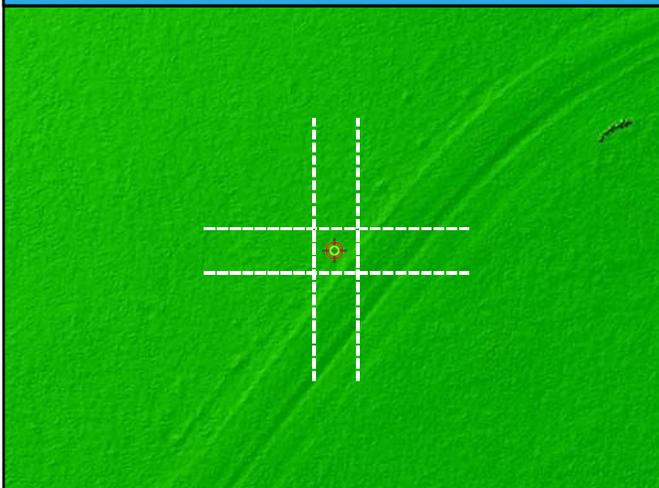
Cross Section - North to South



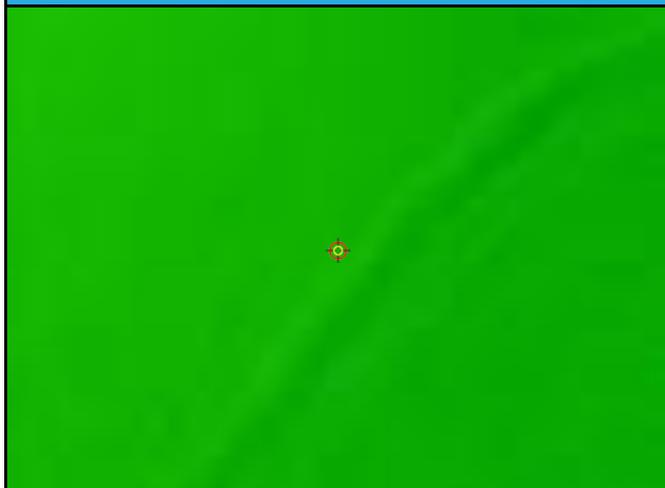
Intensity



LAS Points TIN



DEM

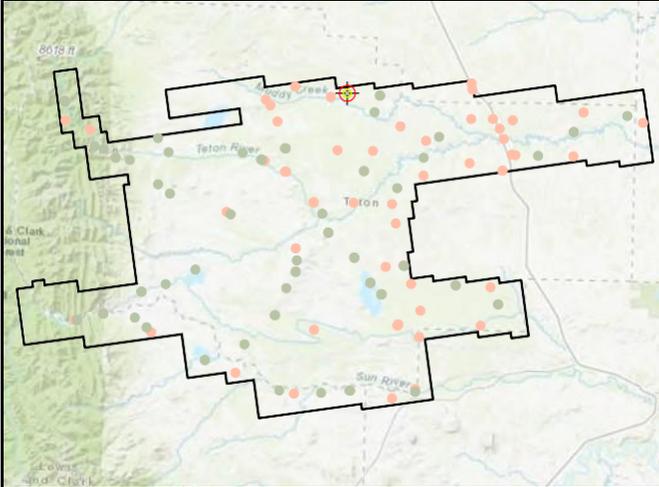


TG004

General	
Name	TG004
Type	VVA
Known Z	1153.26 m
DEM Dz	7.93 cm

Ground (LAS Points)	
Dz	7.19 cm
Density	12.13 ppsm
Nearest	0.15 m
Slope	3.72°

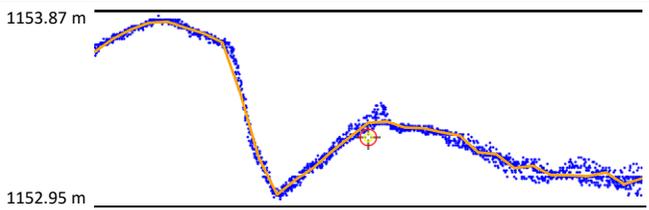
Project Context



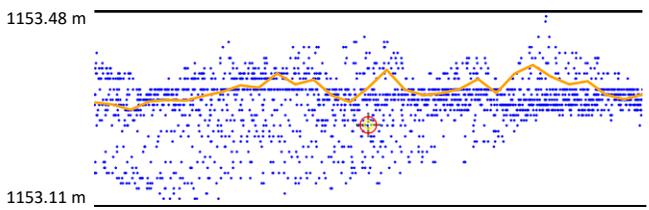
World Imagery



Cross Section - North to South



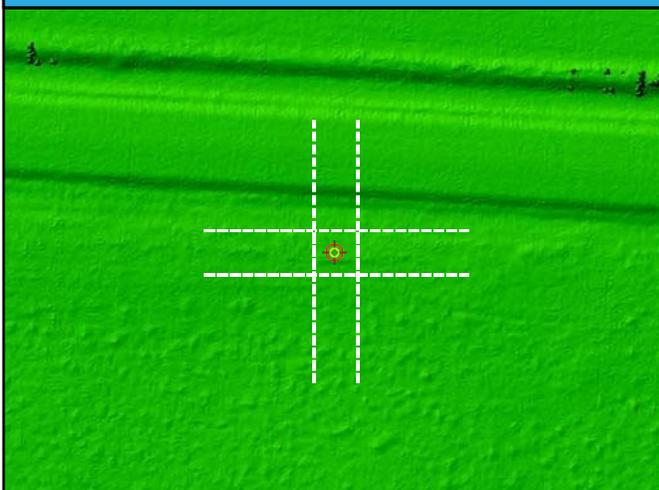
Cross Section - East to West



Intensity



LAS Points TIN



DEM

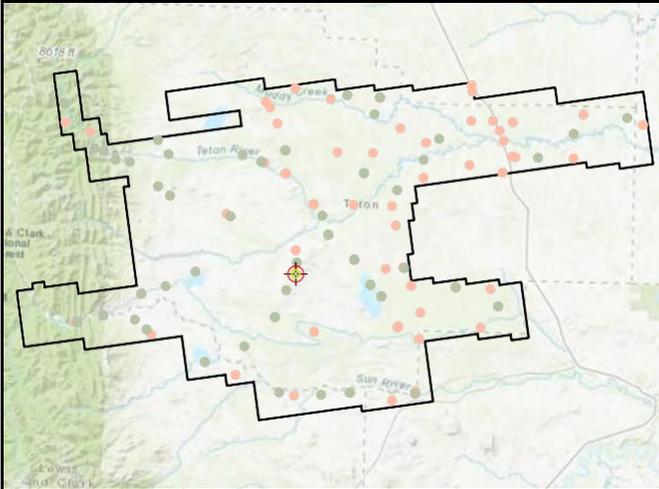


TG005

General	
Name	TG005
Type	VVA
Known Z	1391.54 m
DEM Dz	7.88 cm

Ground (LAS Points)	
Dz	9.37 cm
Density	6.22 ppsm
Nearest	0.36 m
Slope	1.82°

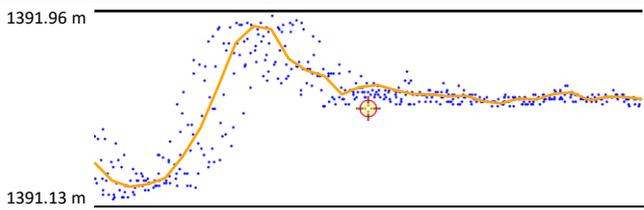
Project Context



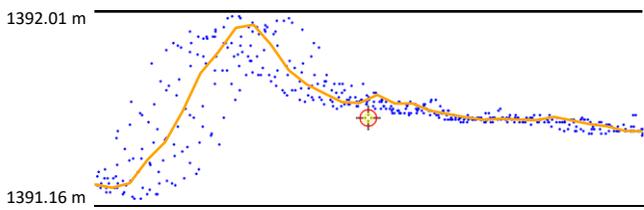
World Imagery



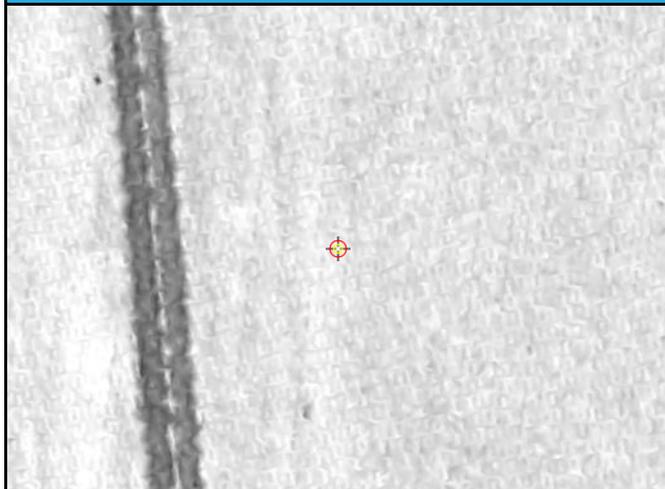
Cross Section - Southwest to Northeast



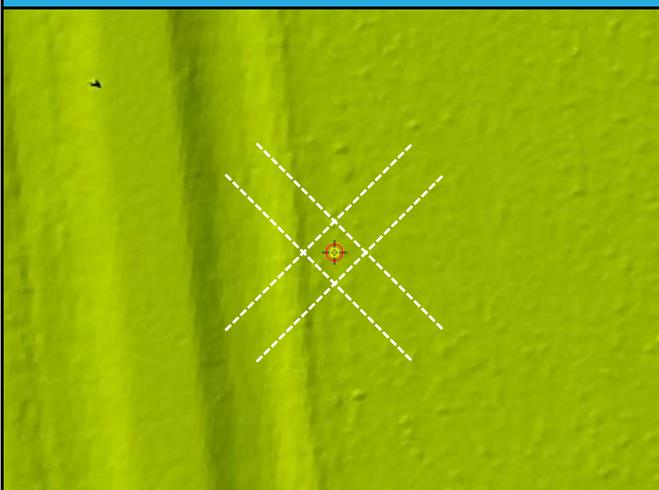
Cross Section - Northwest to Southeast



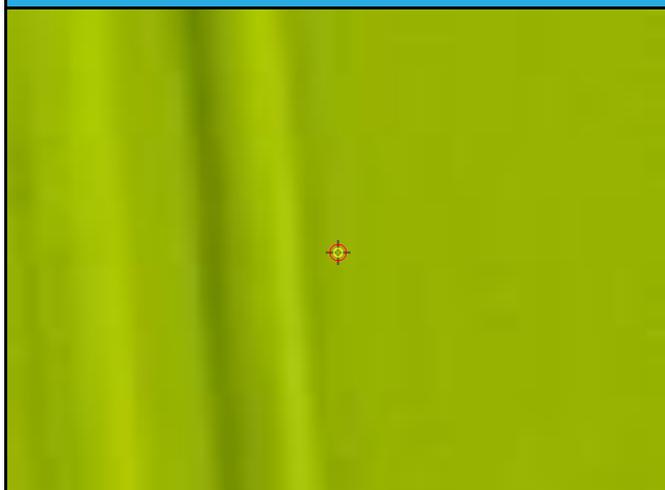
Intensity



LAS Points TIN



DEM

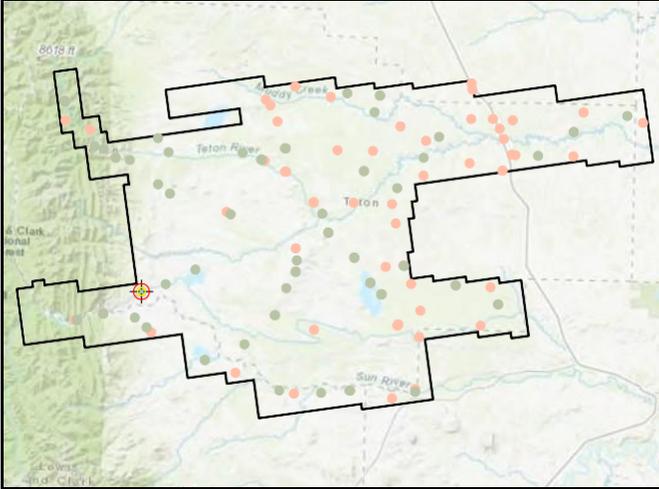


TG006

General	
Name	TG006
Type	VVA
Known Z	1355.30 m
DEM Dz	-1.36 cm

Ground (LAS Points)	
Dz	2.59 cm
Density	25.32 ppsm
Nearest	0.07 m
Slope	5.85°

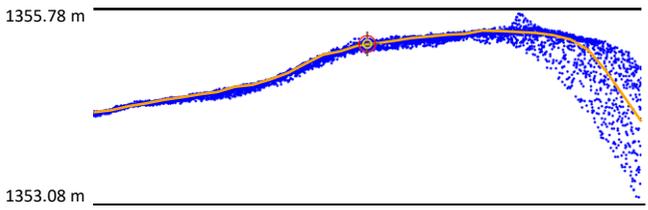
Project Context



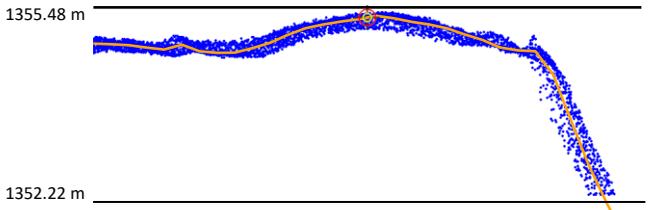
World Imagery



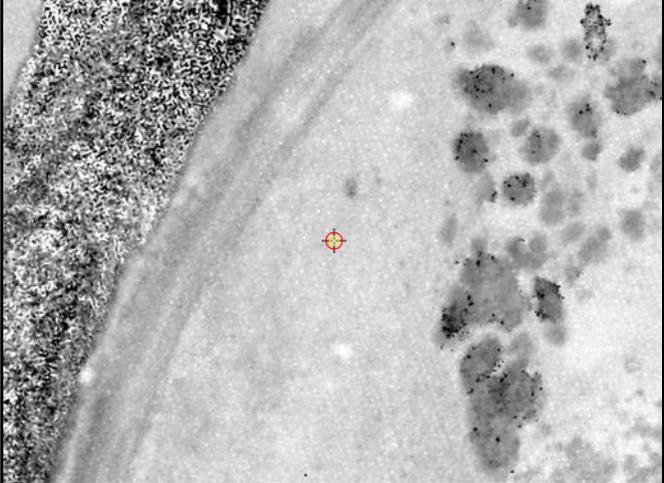
Cross Section - Southwest to Northeast



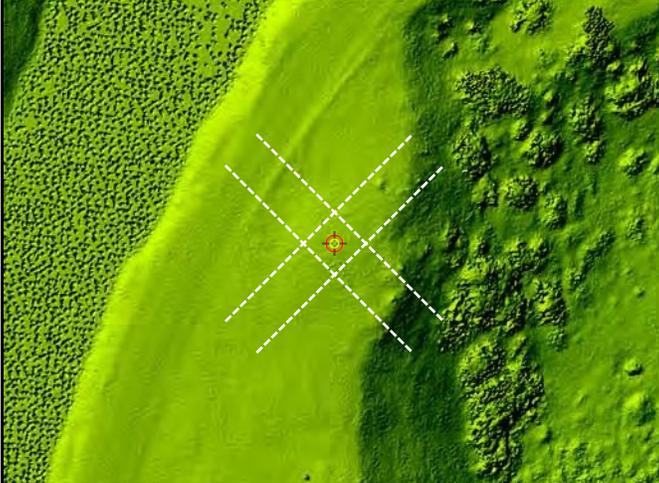
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

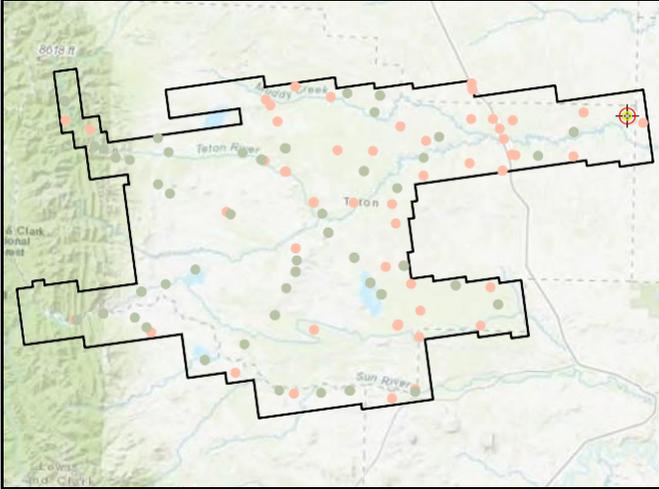


TG006

General	
Name	TG006
Type	VVA
Known Z	982.32 m
DEM Dz	8.26 cm

Ground (LAS Points)	
Dz	9.08 cm
Density	13.55 ppsm
Nearest	0.15 m
Slope	2.86°

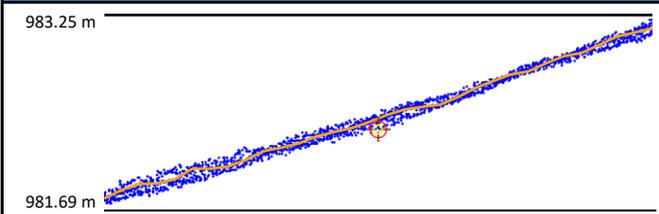
Project Context



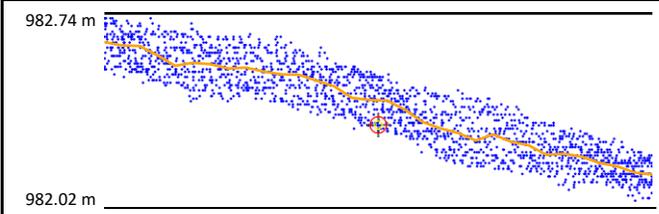
World Imagery



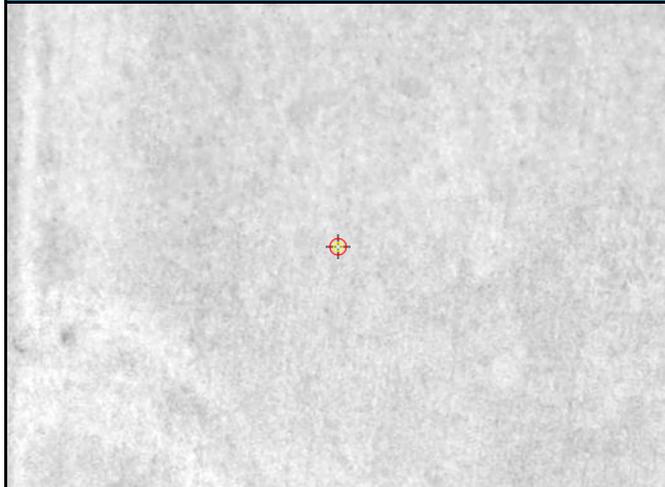
Cross Section - Southwest to Northeast



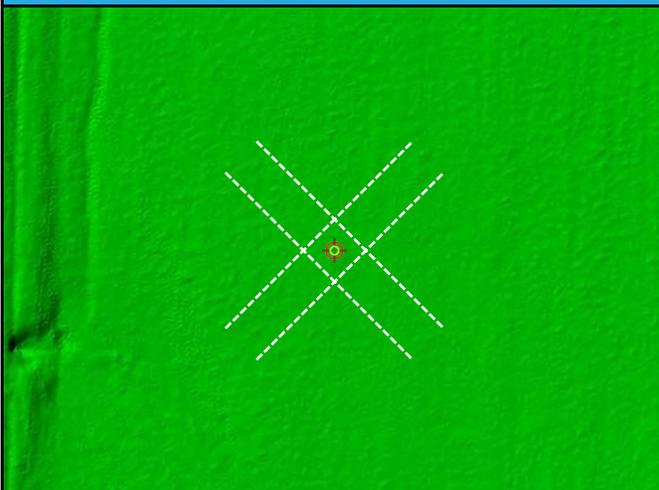
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

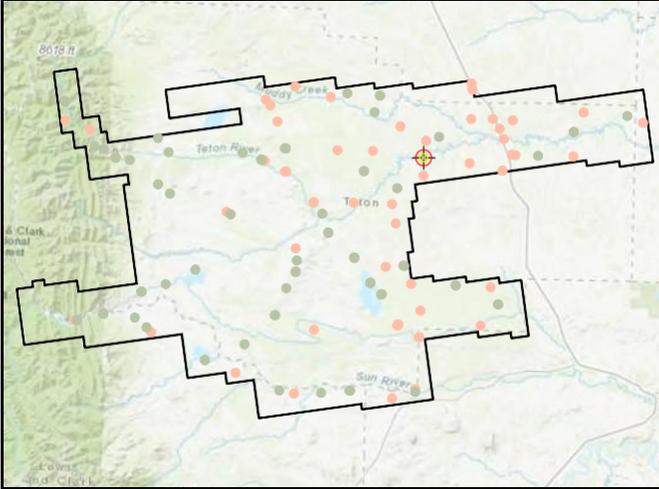


TG007

General	
Name	TG007
Type	VVA
Known Z	1114.40 m
DEM Dz	3.56 cm

Ground (LAS Points)	
Dz	3.21 cm
Density	14.78 ppsm
Nearest	0.09 m
Slope	7.69°

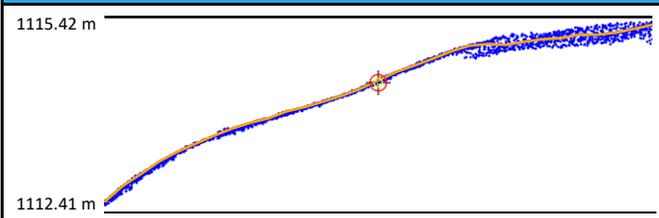
Project Context



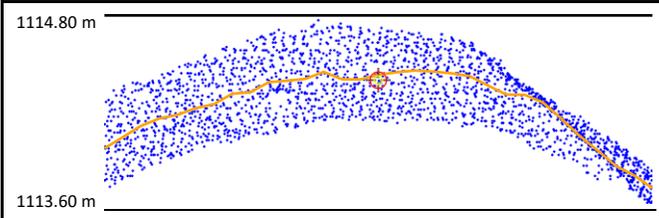
World Imagery



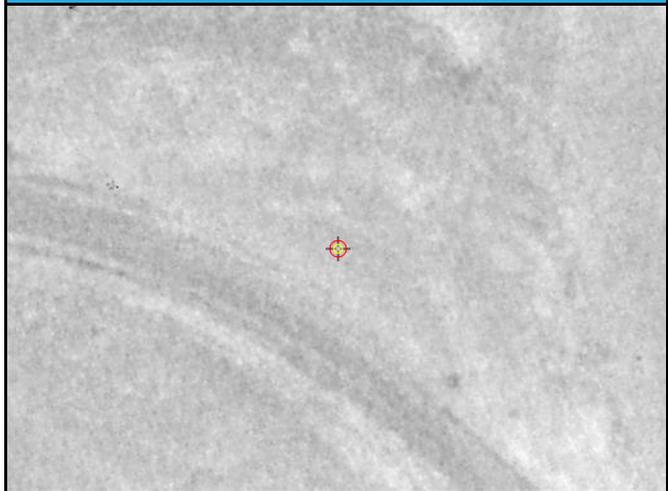
Cross Section - North to South



Cross Section - East to West



Intensity



LAS Points TIN



DEM

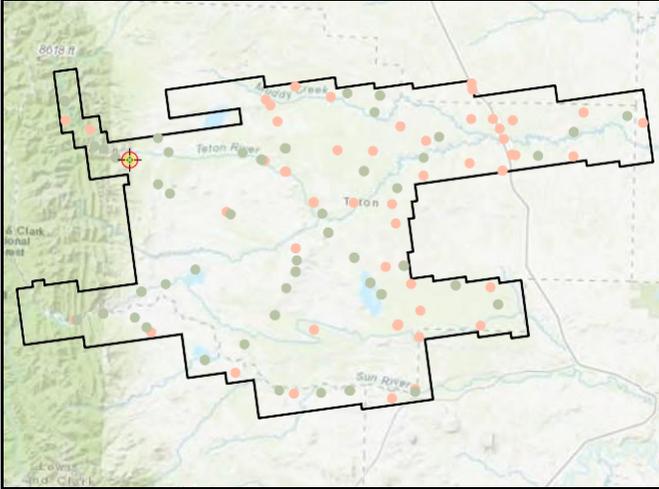


TG009

General	
Name	TG009
Type	VVA
Known Z	1506.12 m
DEM Dz	9.89 cm

Ground (LAS Points)	
Dz	12.76 cm
Density	15.92 ppsm
Nearest	0.21 m
Slope	3.84°

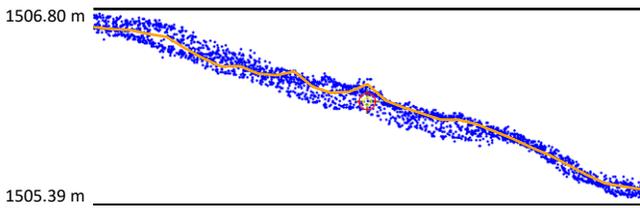
Project Context



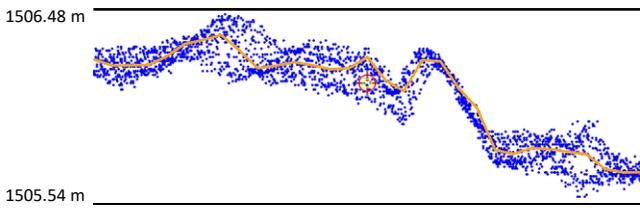
World Imagery



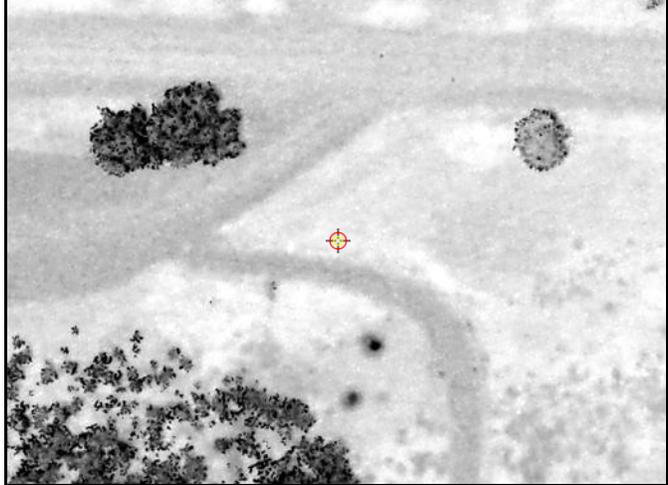
Cross Section - West to East



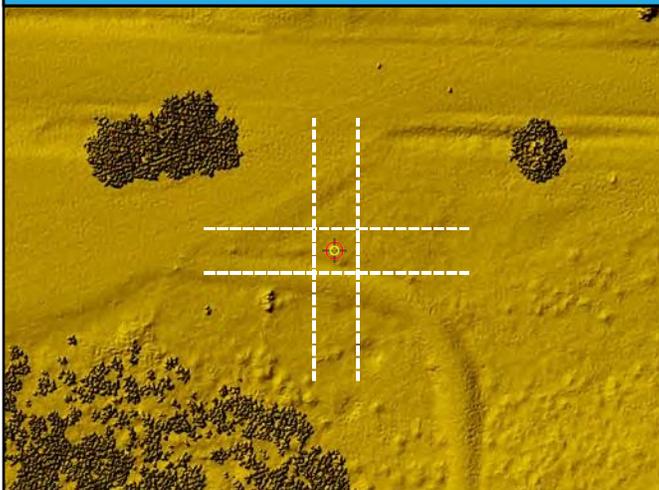
Cross Section - North to South



Intensity



LAS Points TIN



DEM

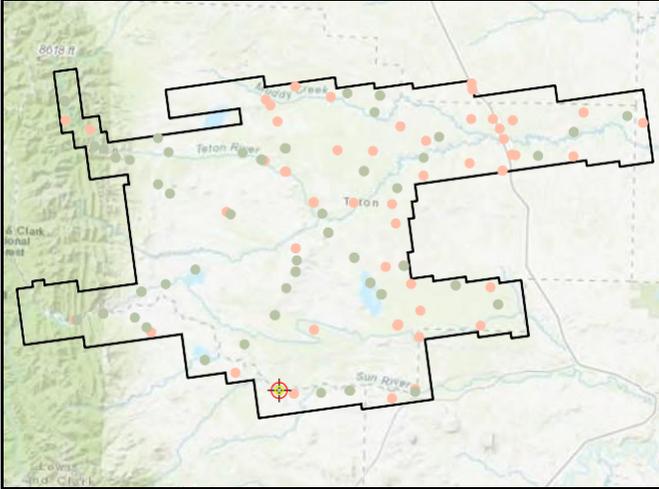


TG010

General	
Name	TG010
Type	VVA
Known Z	1177.86 m
DEM Dz	5.79 cm

Ground (LAS Points)	
Dz	9.91 cm
Density	18.99 ppsm
Nearest	0.13 m
Slope	1.01°

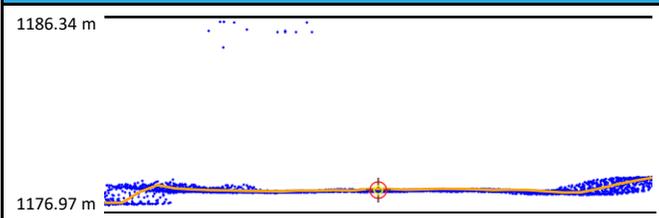
Project Context



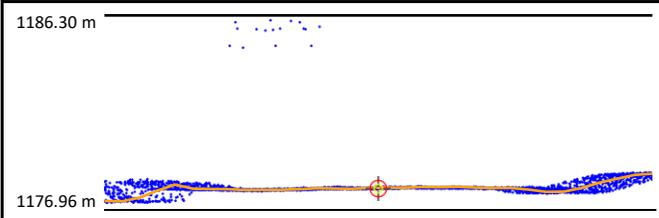
World Imagery



Cross Section - Northwest to Southeast



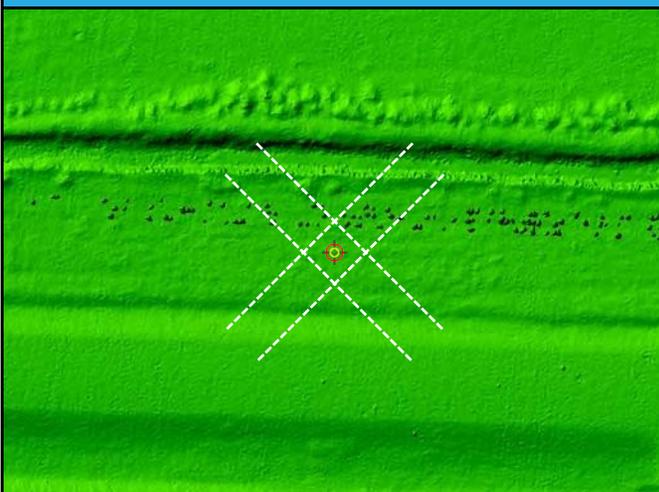
Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

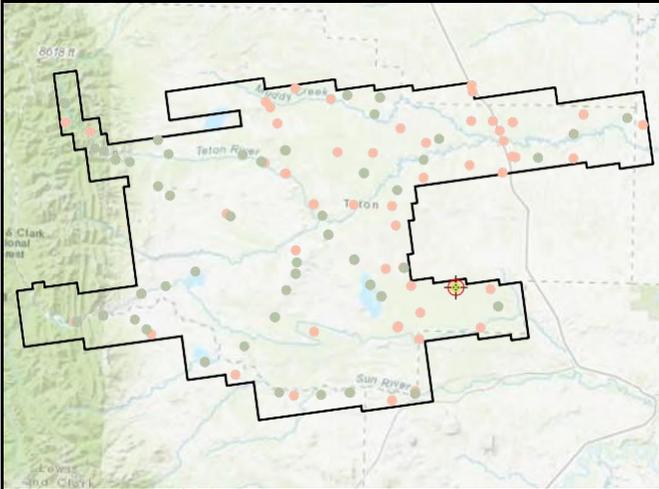


TG011

General	
Name	TG011
Type	VVA
Known Z	1168.86 m
DEM Dz	0.44 cm

Ground (LAS Points)	
Dz	1.20 cm
Density	4.39 ppsm
Nearest	0.16 m
Slope	6.84°

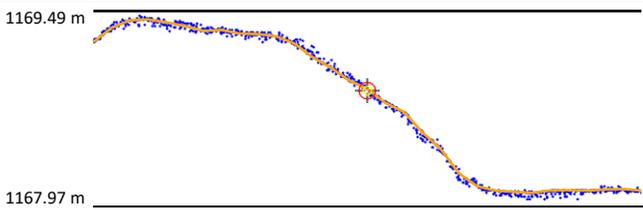
Project Context



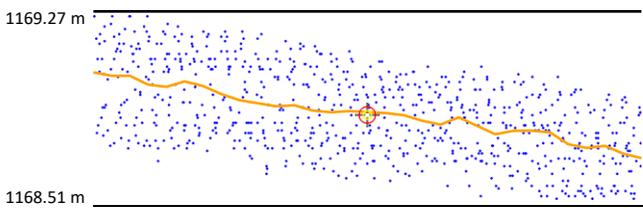
World Imagery



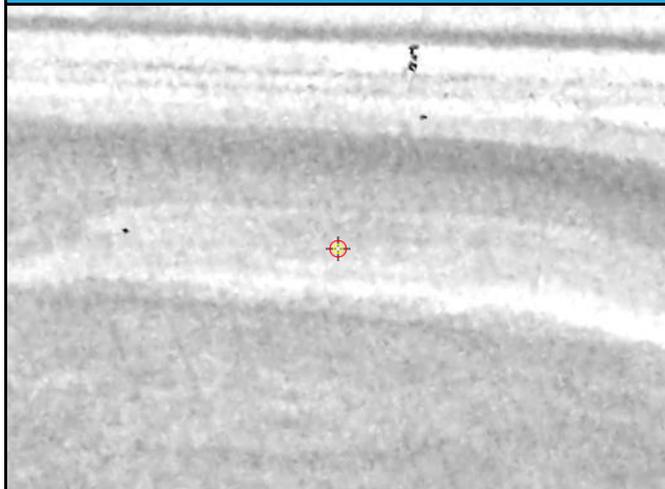
Cross Section - North to South



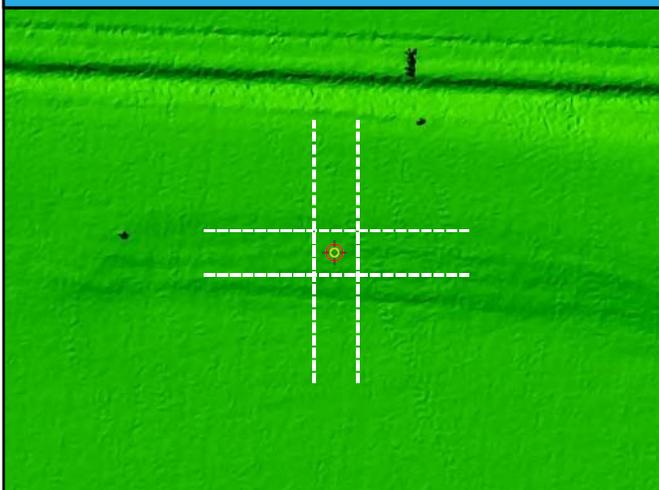
Cross Section - East to West



Intensity



LAS Points TIN



DEM

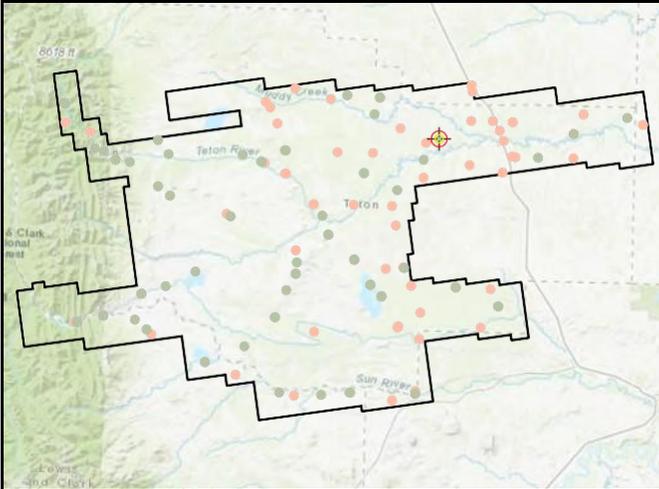


TG012

General	
Name	TG012
Type	VVA
Known Z	1097.31 m
DEM Dz	7.16 cm

Ground (LAS Points)	
Dz	10.65 cm
Density	10.47 ppsm
Nearest	0.08 m
Slope	1.43°

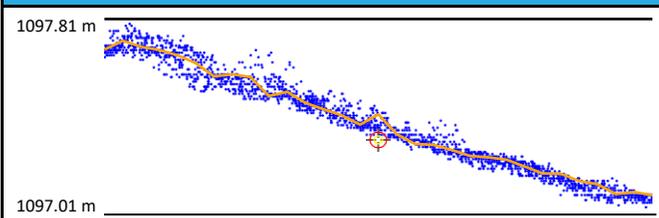
Project Context



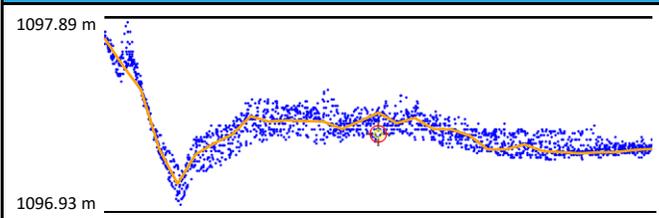
World Imagery



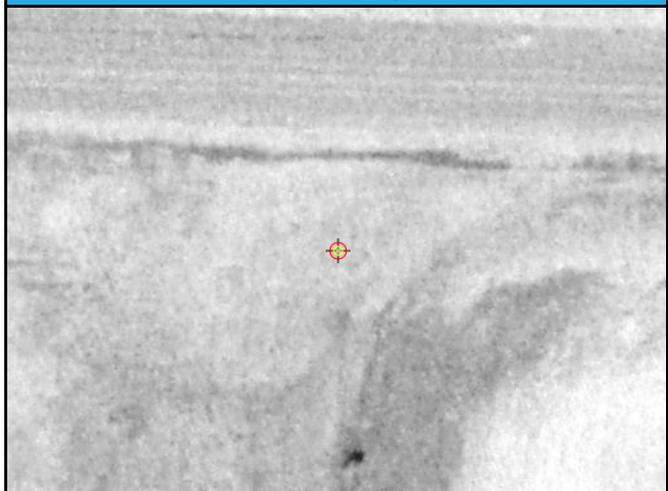
Cross Section - West to East



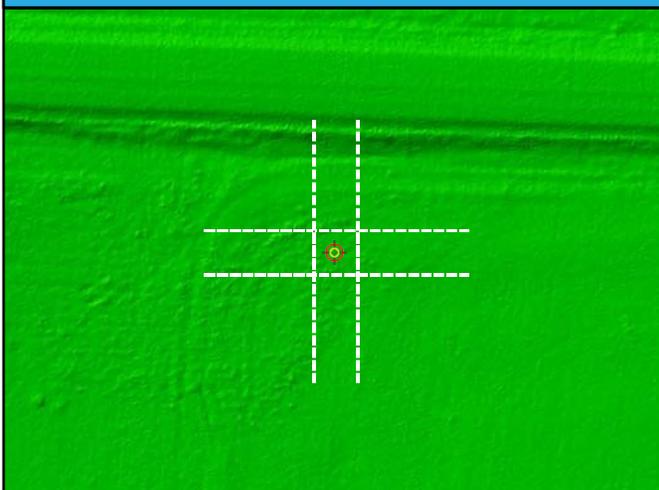
Cross Section - North to South



Intensity



LAS Points TIN



DEM

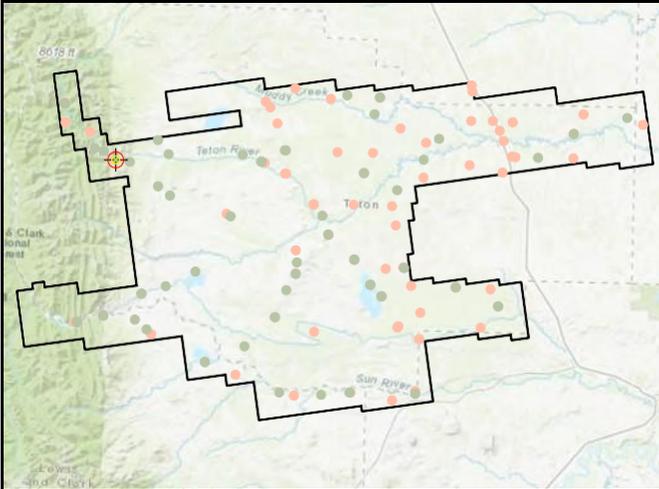


TG013

General	
Name	TG013
Type	VVA
Known Z	1547.70 m
DEM Dz	7.62 cm

Ground (LAS Points)	
Dz	8.31 cm
Density	16.73 ppsm
Nearest	0.14 m
Slope	3.24°

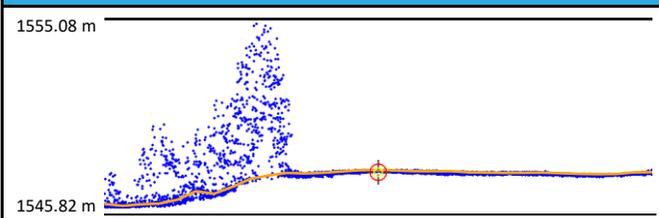
Project Context



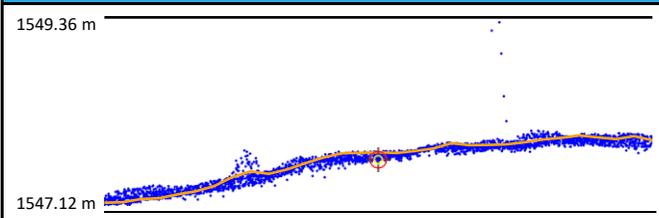
World Imagery



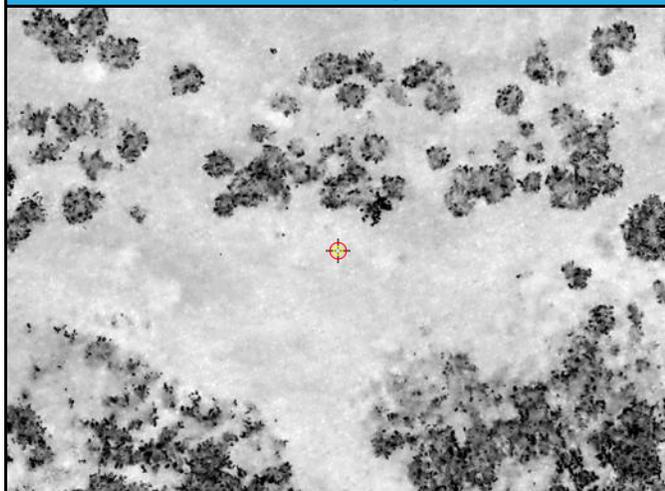
Cross Section - North to South



Cross Section - East to West



Intensity



LAS Points TIN



DEM

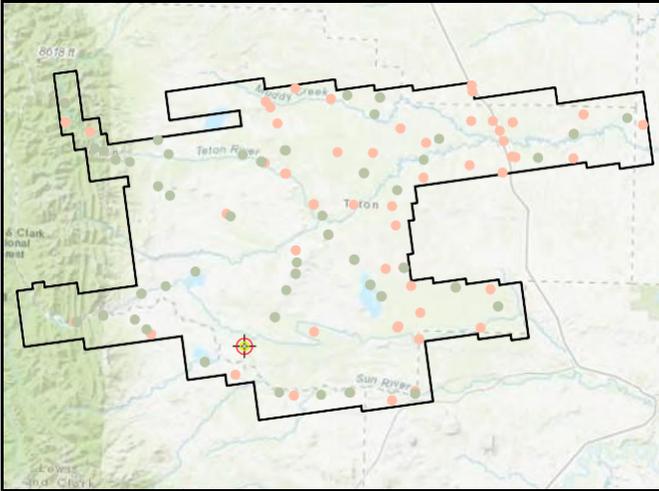


TG014

General	
Name	TG014
Type	VVA
Known Z	1305.72 m
DEM Dz	2.84 cm

Ground (LAS Points)	
Dz	3.58 cm
Density	28.12 ppsm
Nearest	0.06 m
Slope	11.59°

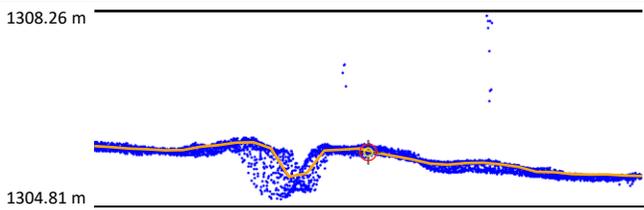
Project Context



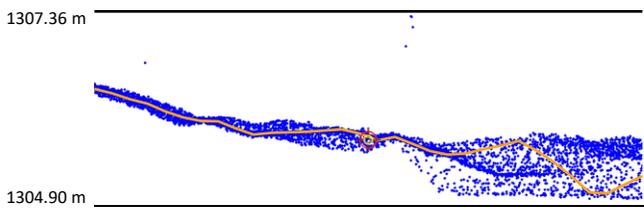
World Imagery



Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

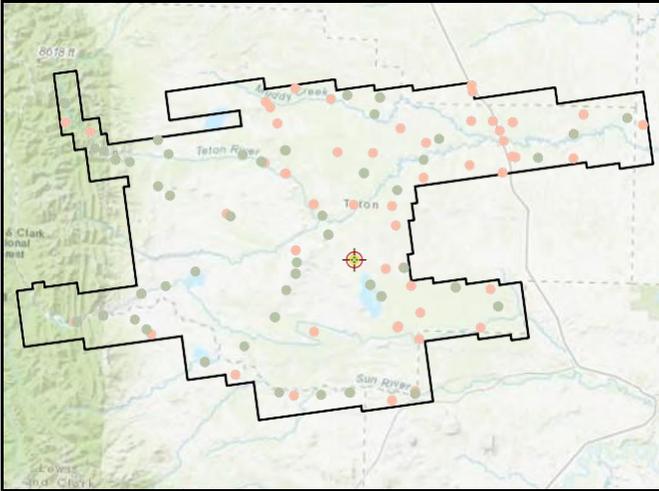


TG015

General	
Name	TG015
Type	VVA
Known Z	1149.87 m
DEM Dz	18.20 cm

Ground (LAS Points)	
Dz	18.26 cm
Density	3.78 ppsm
Nearest	0.11 m
Slope	1.22°

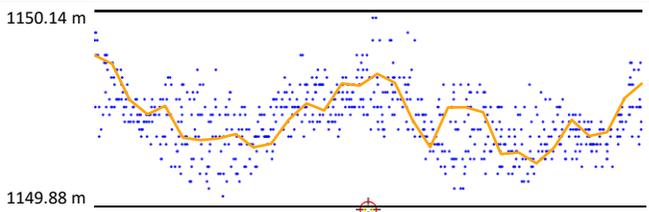
Project Context



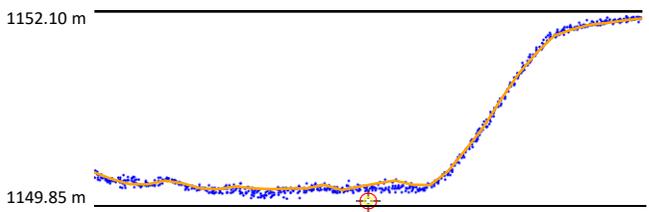
World Imagery



Cross Section - Northwest to Southeast



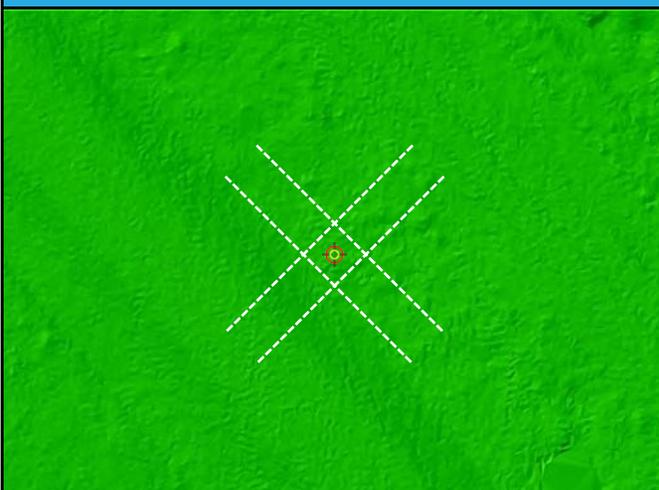
Cross Section - Northeast to Southwest



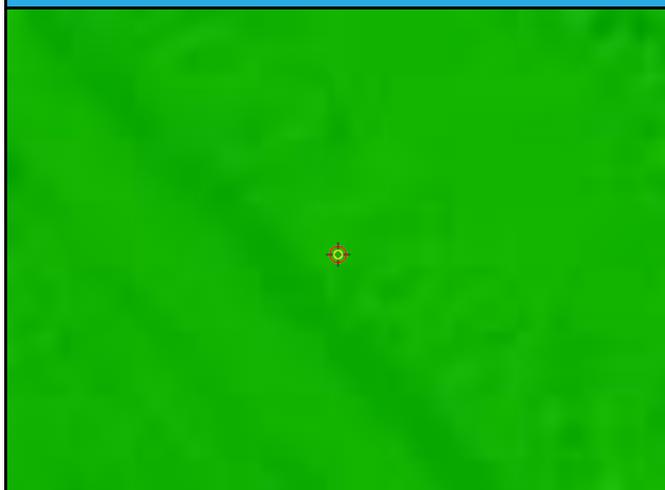
Intensity



LAS Points TIN



DEM

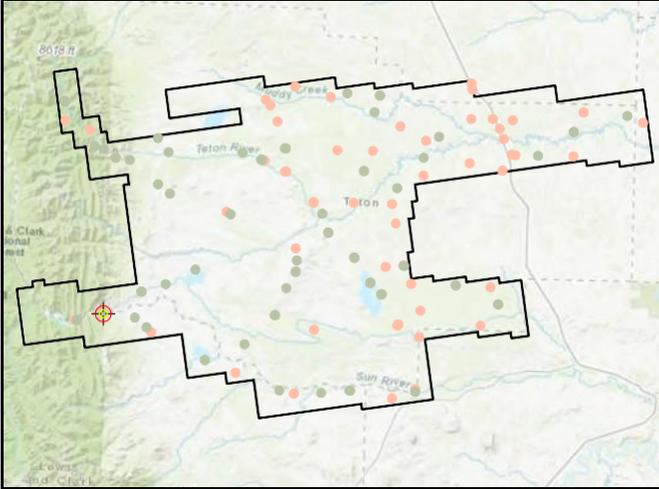


TG016

General	
Name	TG016
Type	VVA
Known Z	1362.16 m
DEM Dz	9.27 cm

Ground (LAS Points)	
Dz	13.19 cm
Density	26.14 ppsm
Nearest	0.15 m
Slope	28.88°

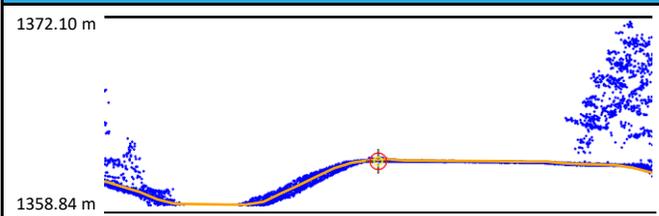
Project Context



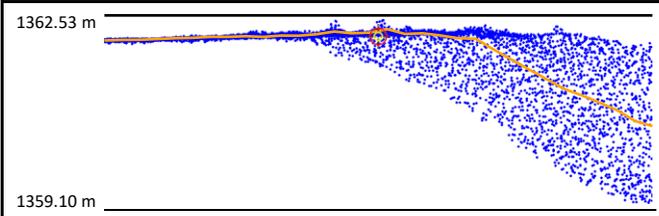
World Imagery



Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

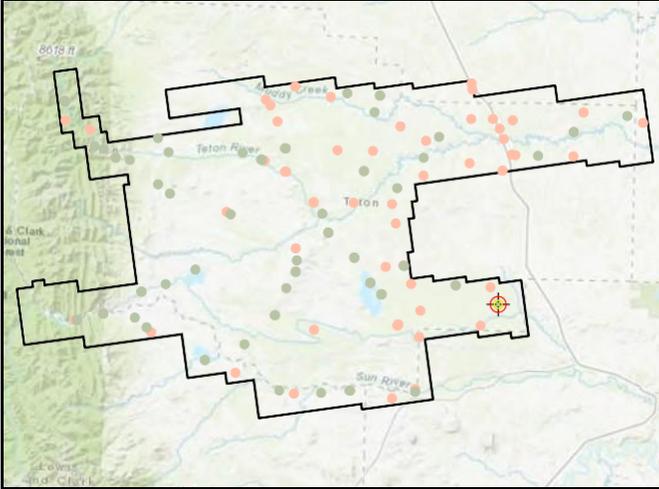


TG017

General	
Name	TG017
Type	VVA
Known Z	1146.67 m
DEM Dz	1.96 cm

Ground (LAS Points)	
Dz	2.14 cm
Density	2.90 ppsm
Nearest	0.31 m
Slope	4.04°

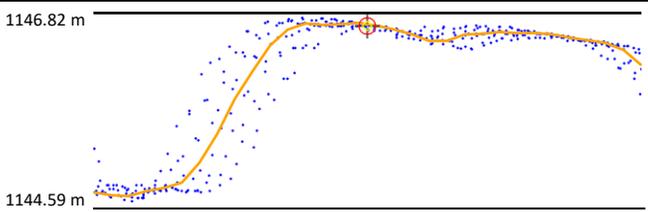
Project Context



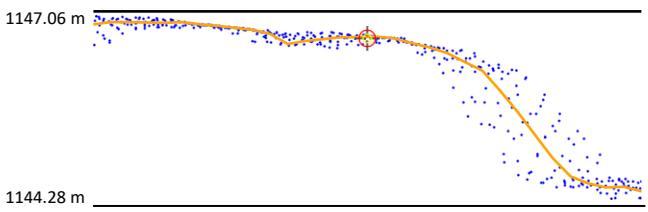
World Imagery



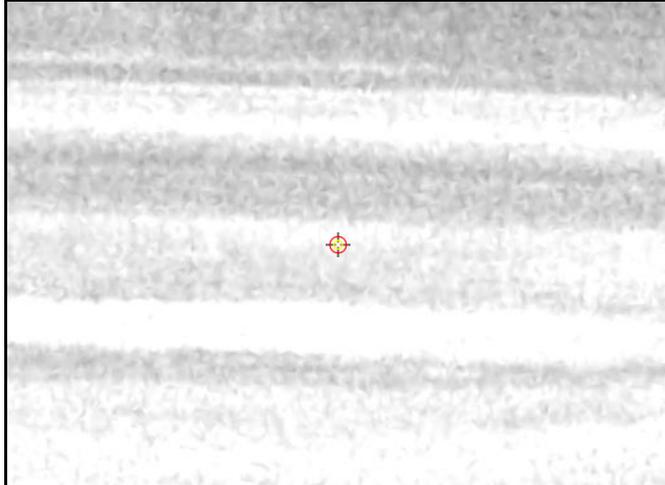
Cross Section - Southwest to Northeast



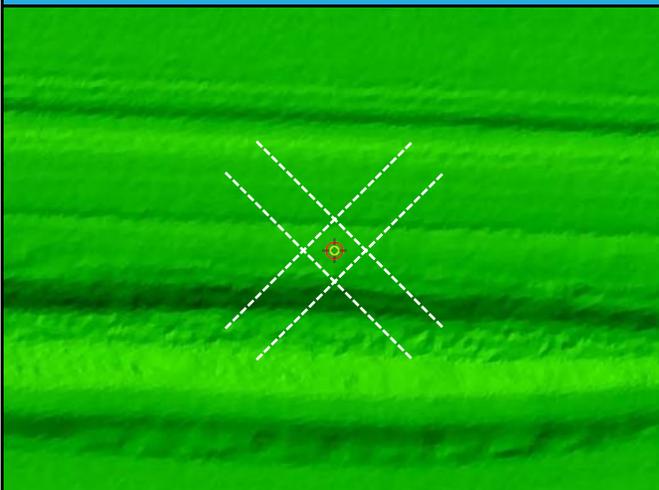
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

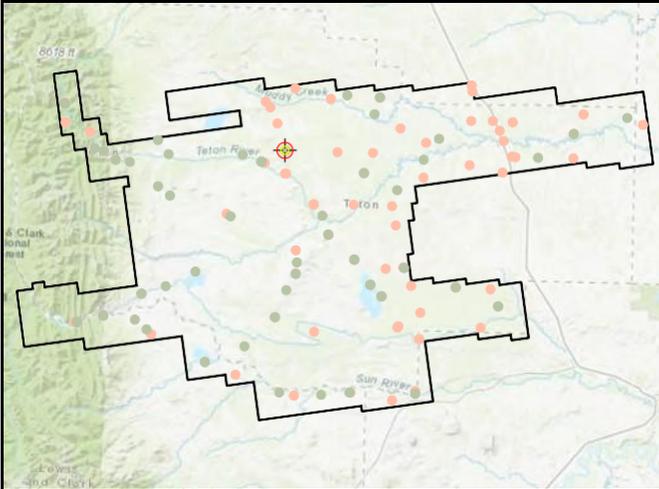


TG018

General	
Name	TG018
Type	VVA
Known Z	1227.71 m
DEM Dz	4.48 cm

Ground (LAS Points)	
Dz	5.98 cm
Density	16.91 ppsm
Nearest	0.11 m
Slope	1.42°

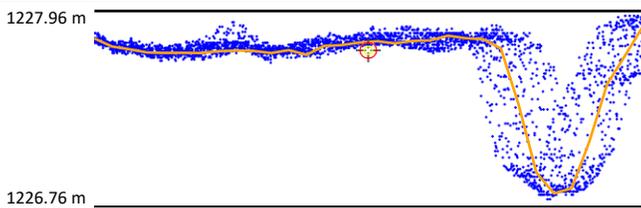
Project Context



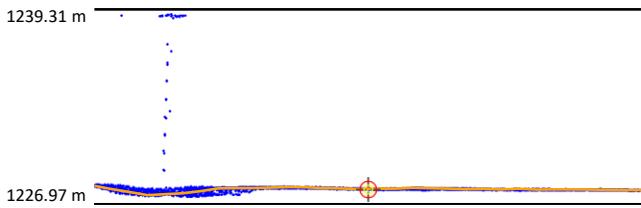
World Imagery



Cross Section - Southwest to Northeast



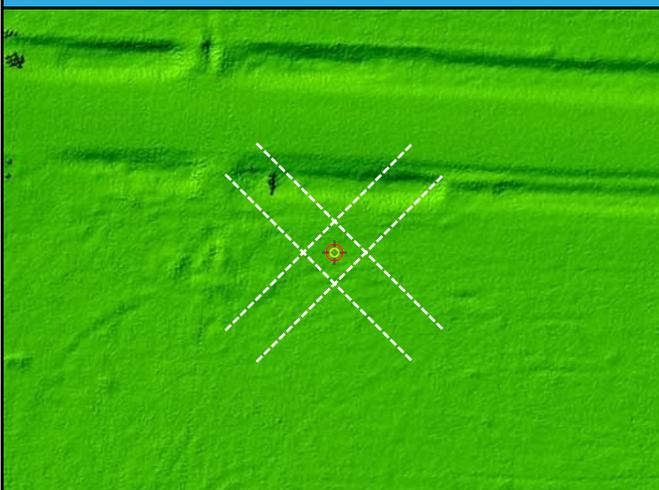
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

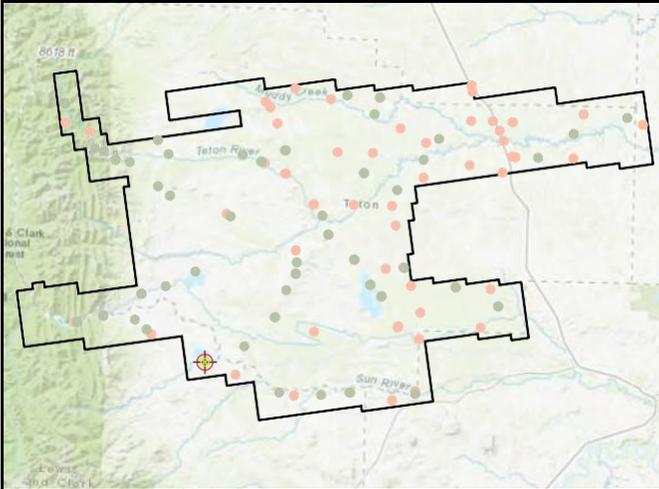


TG019

General	
Name	TG019
Type	VVA
Known Z	1266.13 m
DEM Dz	6.55 cm

Ground (LAS Points)	
Dz	5.65 cm
Density	16.41 ppsm
Nearest	0.14 m
Slope	5.14°

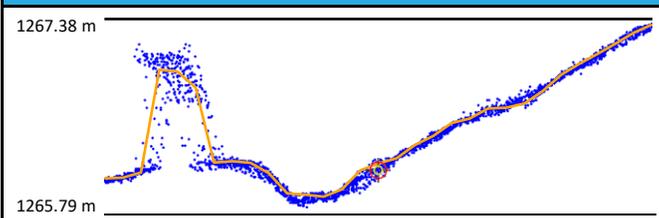
Project Context



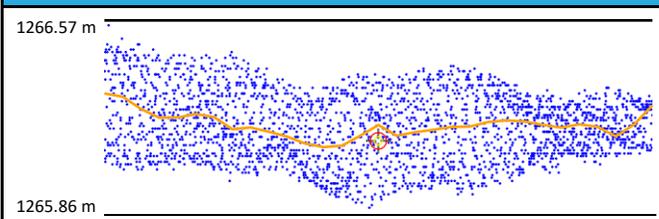
World Imagery



Cross Section - North to South



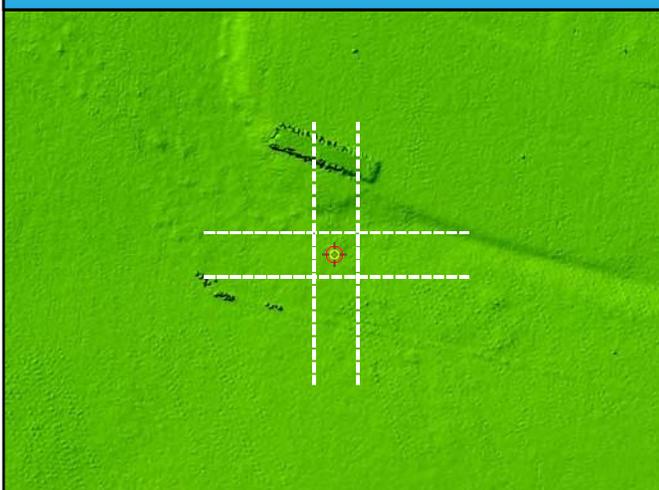
Cross Section - East to West



Intensity



LAS Points TIN



DEM

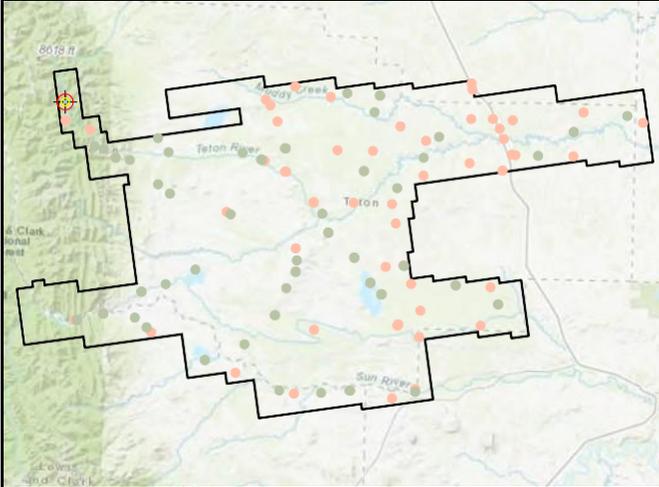


TG020

General	
Name	TG020
Type	VVA
Known Z	1713.11 m
DEM Dz	3.56 cm

Ground (LAS Points)	
Dz	3.00 cm
Density	21.89 ppsm
Nearest	0.07 m
Slope	2.23°

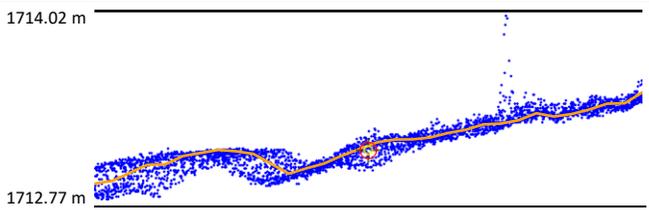
Project Context



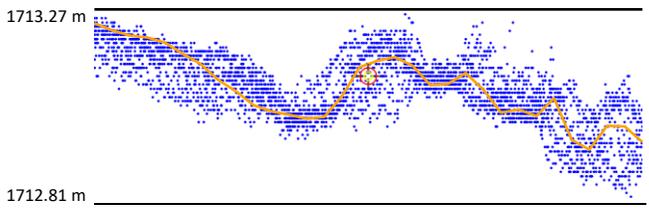
World Imagery



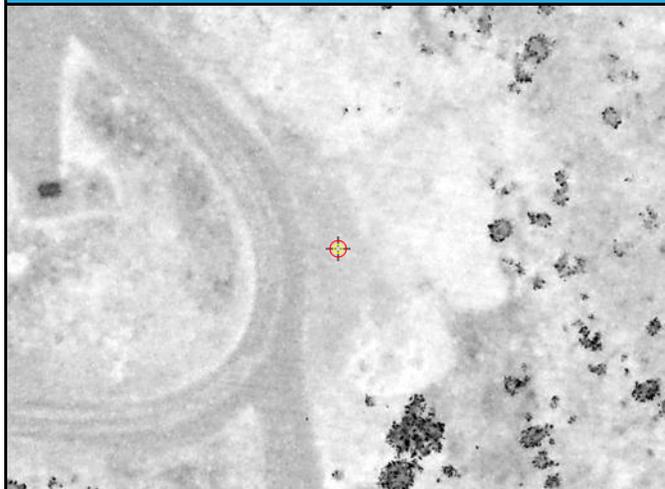
Cross Section - Southwest to Northeast



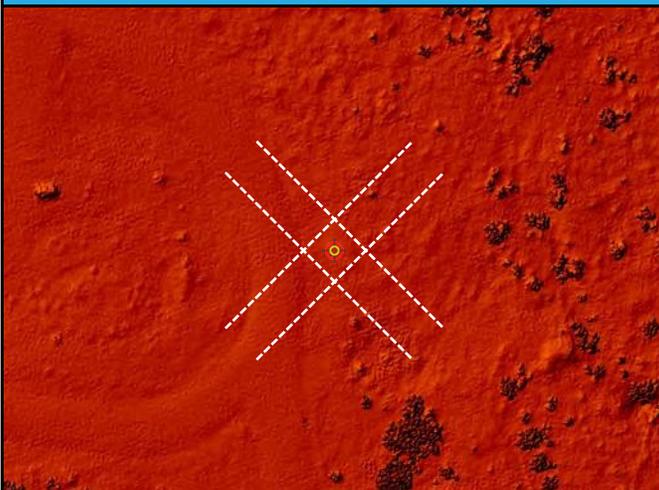
Cross Section - Northwest to Southeast



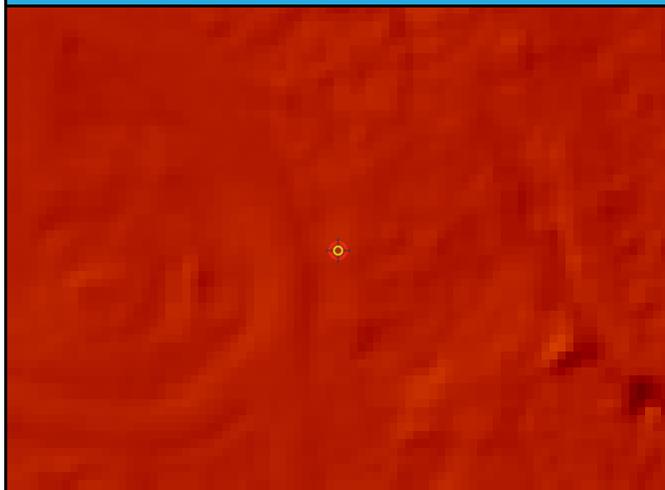
Intensity



LAS Points TIN



DEM

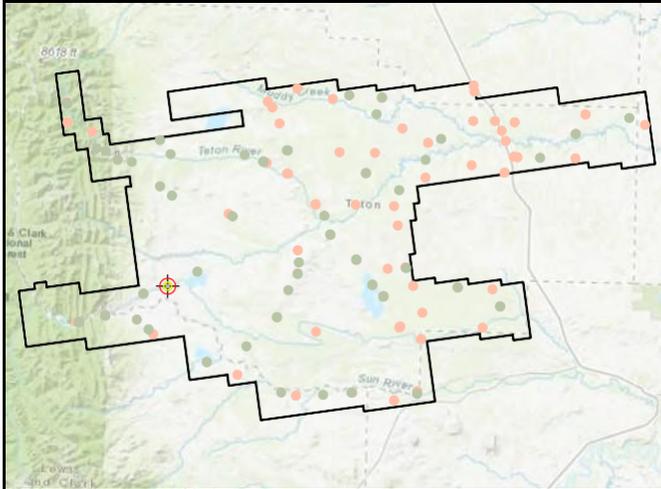


TG021

General	
Name	TG021
Type	VVA
Known Z	1343.06 m
DEM Dz	1.57 cm

Ground (LAS Points)	
Dz	2.73 cm
Density	16.66 ppsm
Nearest	0.15 m
Slope	10.81°

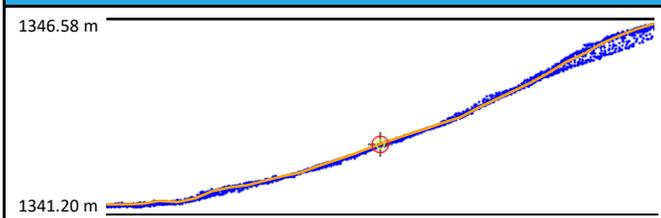
Project Context



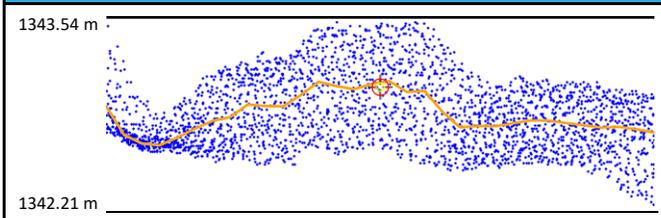
World Imagery



Cross Section - Southwest to Northeast



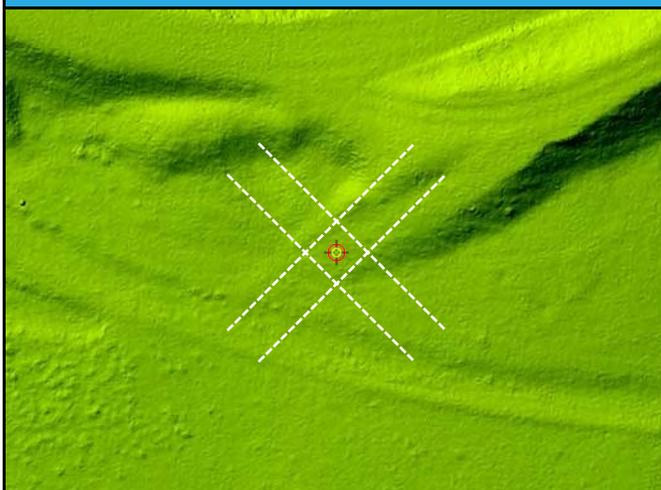
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

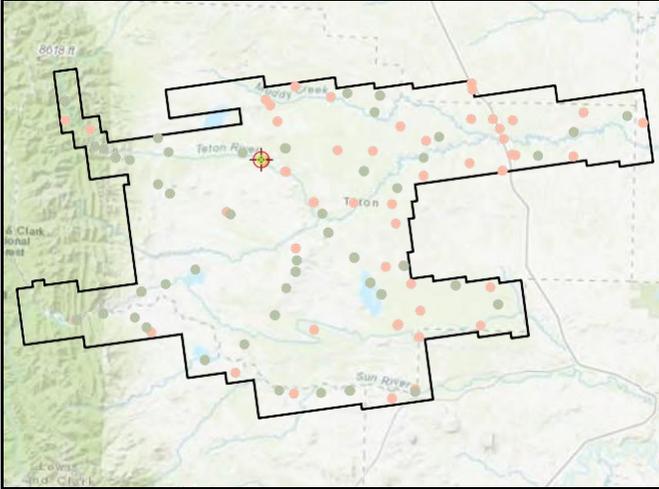


TG022

General	
Name	TG022
Type	VVA
Known Z	1259.04 m
DEM Dz	7.19 cm

Ground (LAS Points)	
Dz	8.30 cm
Density	12.13 ppsm
Nearest	0.17 m
Slope	20.05°

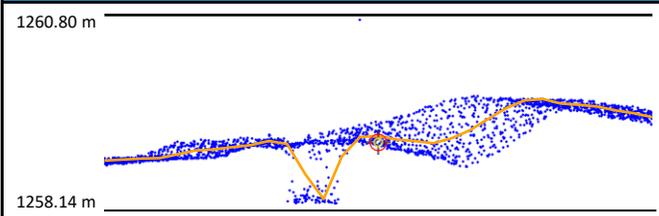
Project Context



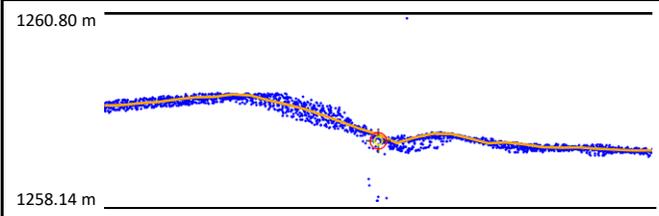
World Imagery



Cross Section - West to East



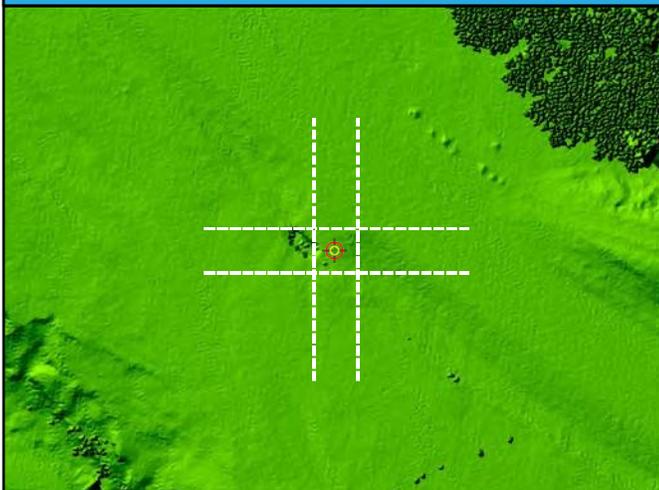
Cross Section - North to South



Intensity



LAS Points TIN



DEM

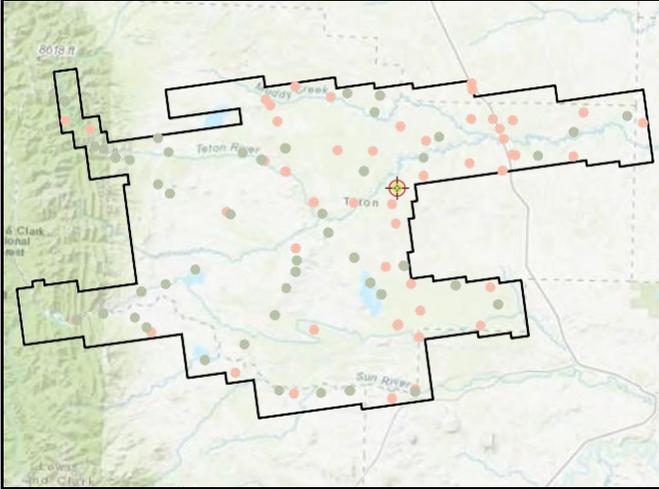


TG023

General	
Name	TG023
Type	VVA
Known Z	1149.59 m
DEM Dz	12.42 cm

Ground (LAS Points)	
Dz	14.00 cm
Density	13.12 ppsm
Nearest	0.12 m
Slope	3.64°

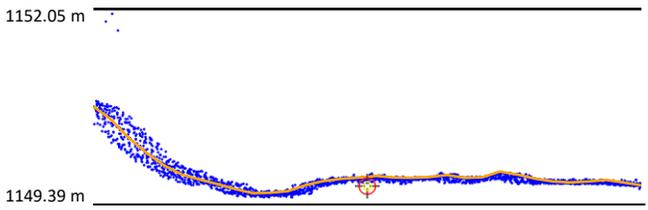
Project Context



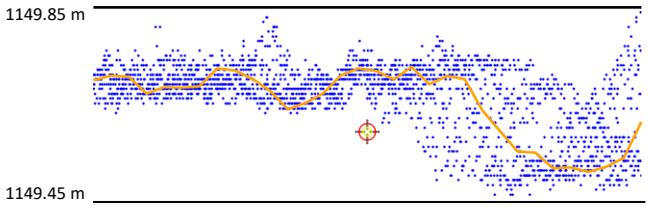
World Imagery



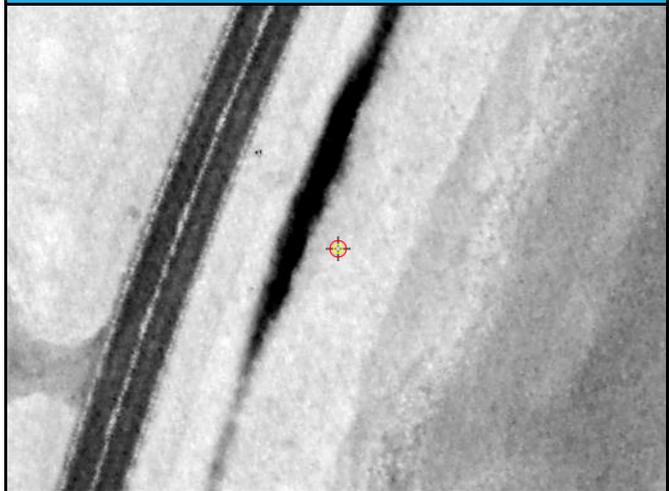
Cross Section - Northwest to Southeast



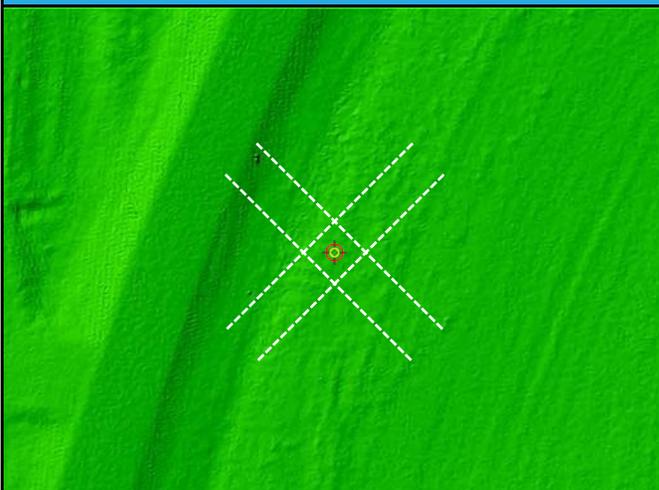
Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

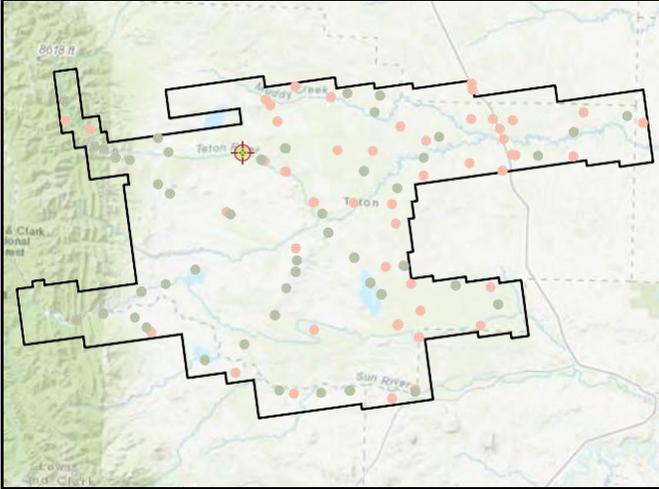


TG024

General	
Name	TG024
Type	VVA
Known Z	1279.80 m
DEM Dz	3.56 cm

Ground (LAS Points)	
Dz	5.24 cm
Density	15.31 ppsm
Nearest	0.21 m
Slope	3.84°

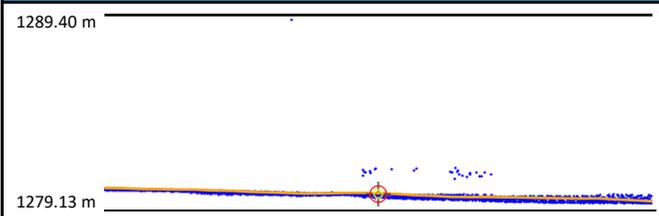
Project Context



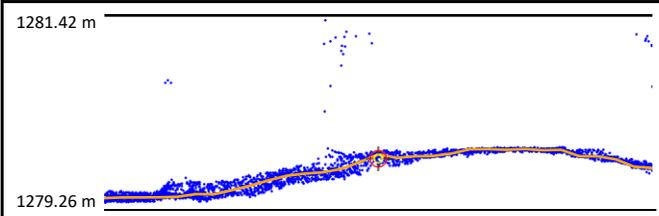
World Imagery



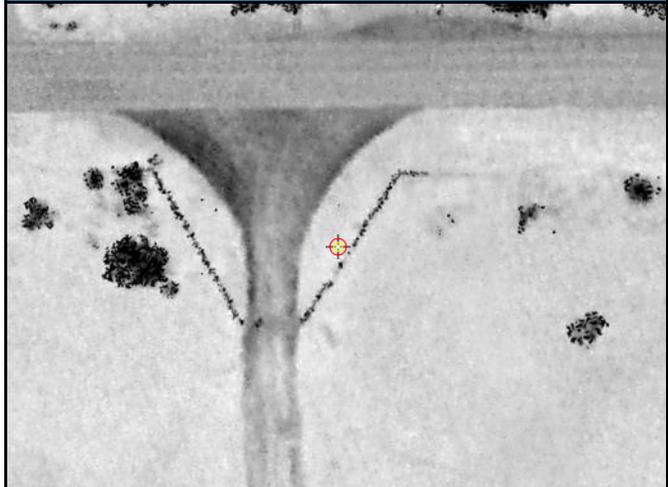
Cross Section - North to South



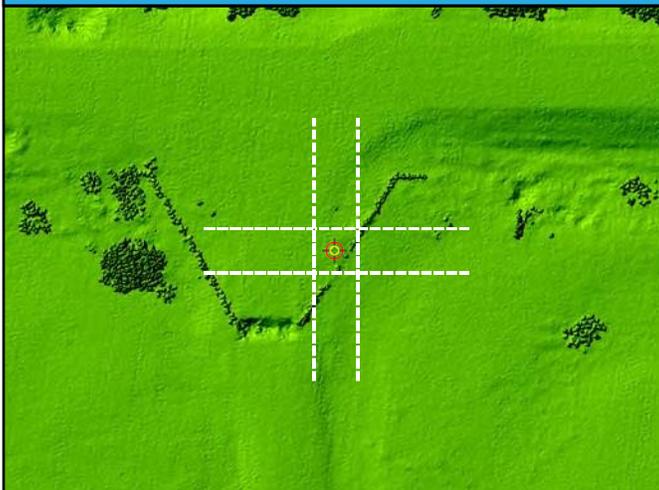
Cross Section - East to West



Intensity



LAS Points TIN



DEM

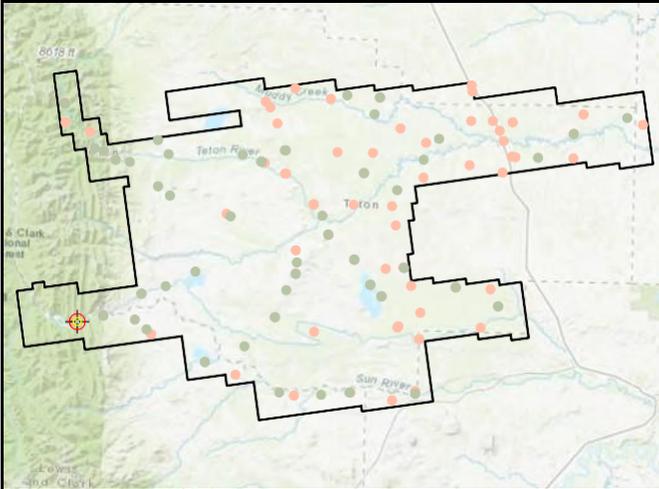


TG025

General	
Name	TG025
Type	VVA
Known Z	1389.12 m
DEM Dz	5.70 cm

Ground (LAS Points)	
Dz	9.57 cm
Density	20.27 ppsm
Nearest	0.23 m
Slope	1.72°

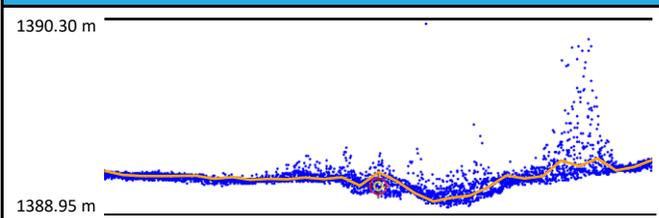
Project Context



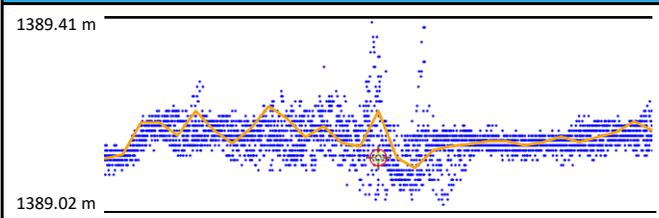
World Imagery



Cross Section - North to South



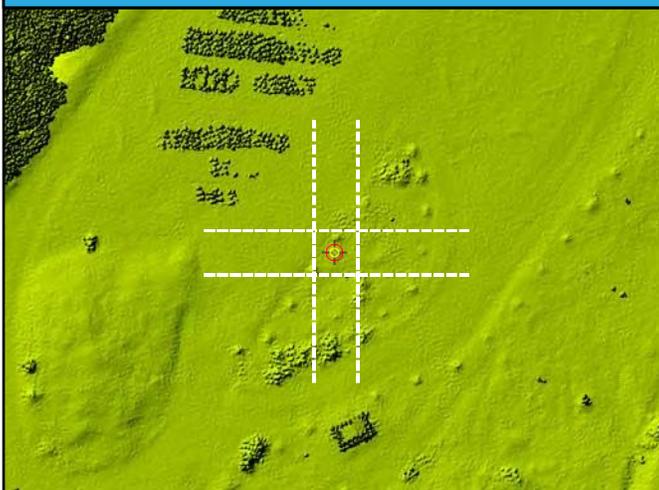
Cross Section - East to West



Intensity



LAS Points TIN



DEM

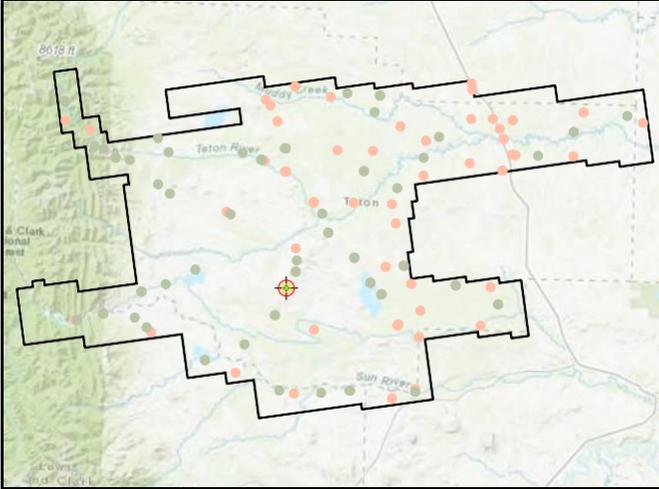


TG026

General	
Name	TG026
Type	VVA
Known Z	1397.03 m
DEM Dz	0.82 cm

Ground (LAS Points)	
Dz	1.29 cm
Density	2.94 ppsm
Nearest	0.13 m
Slope	2.86°

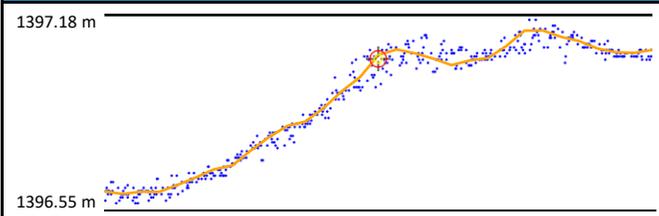
Project Context



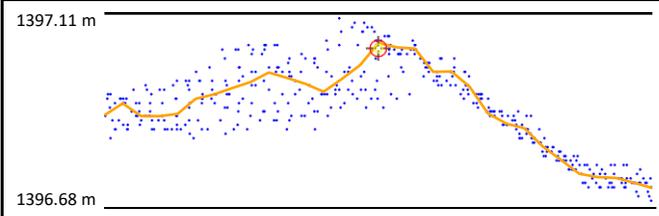
World Imagery



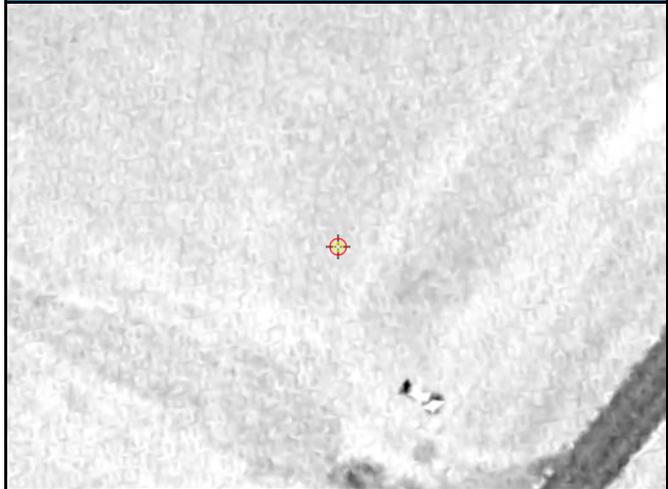
Cross Section - West to East



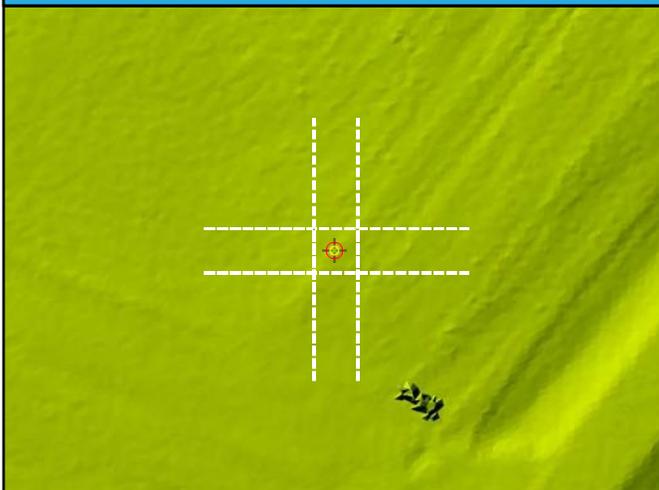
Cross Section - North to South



Intensity



LAS Points TIN



DEM

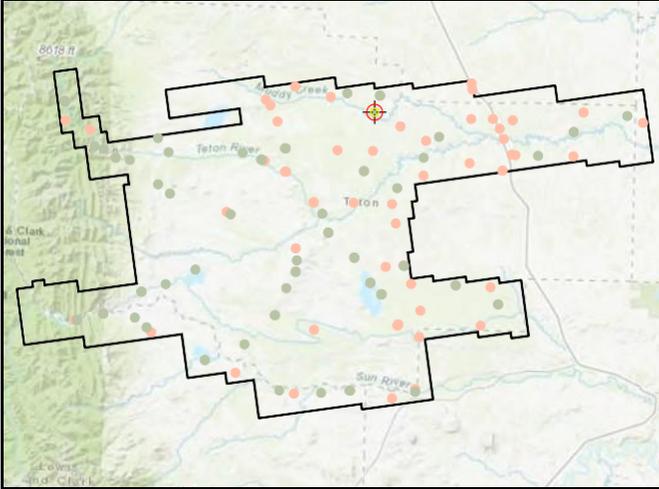


TG027

General	
Name	TG027
Type	VVA
Known Z	1145.27 m
DEM Dz	4.74 cm

Ground (LAS Points)	
Dz	5.56 cm
Density	16.55 ppsm
Nearest	0.11 m
Slope	3.24°

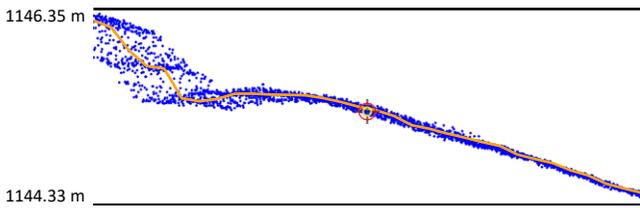
Project Context



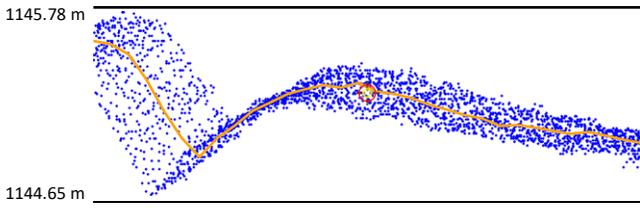
World Imagery



Cross Section - Southwest to Northeast



Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

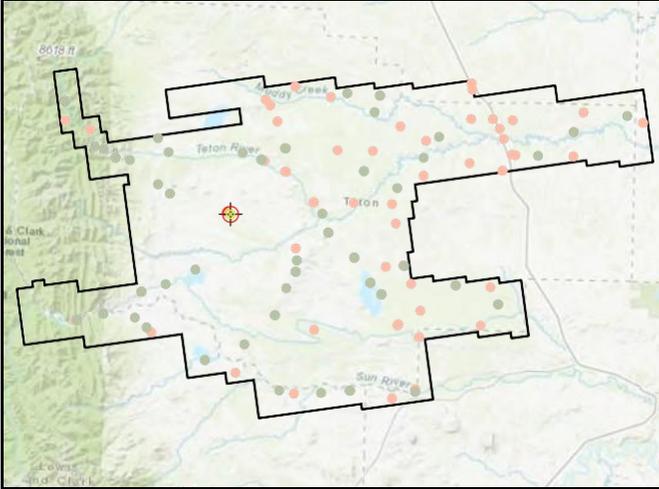


TG028

General	
Name	TG028
Type	VVA
Known Z	1302.83 m
DEM Dz	6.79 cm

Ground (LAS Points)	
Dz	8.81 cm
Density	3.57 ppsm
Nearest	0.25 m
Slope	8.25°

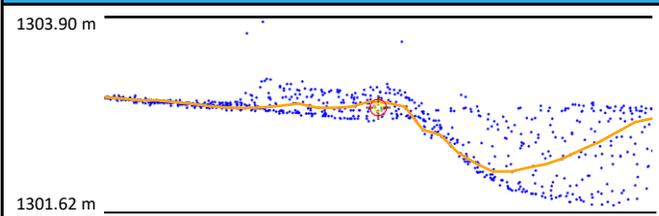
Project Context



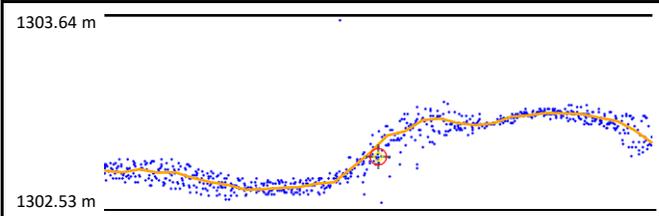
World Imagery



Cross Section - Northwest to Southeast



Cross Section - Northeast to Southwest



Intensity



LAS Points TIN



DEM

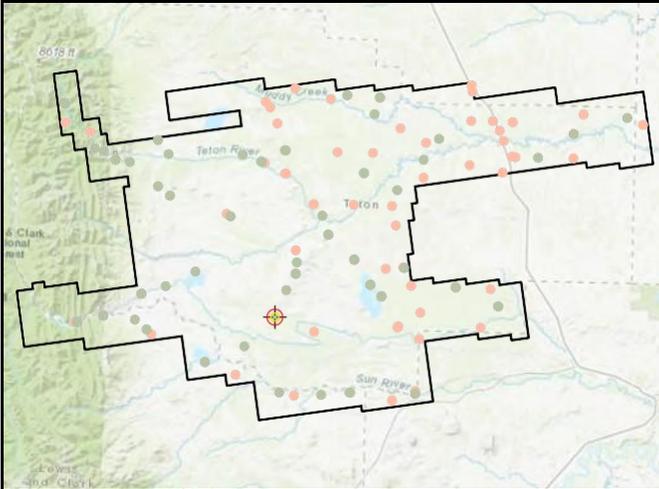


TG030

General	
Name	TG030
Type	VVA
Known Z	1344.42 m
DEM Dz	2.12 cm

Ground (LAS Points)	
Dz	3.36 cm
Density	3.08 ppsm
Nearest	0.16 m
Slope	1.43°

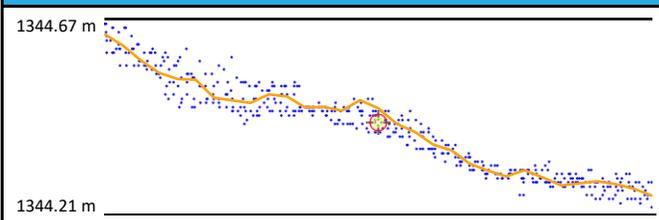
Project Context



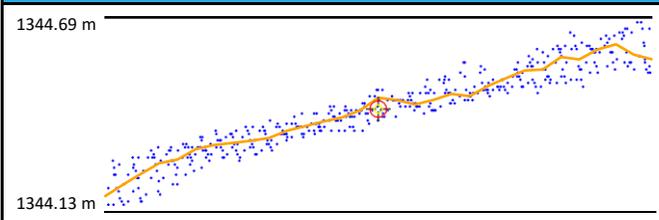
World Imagery



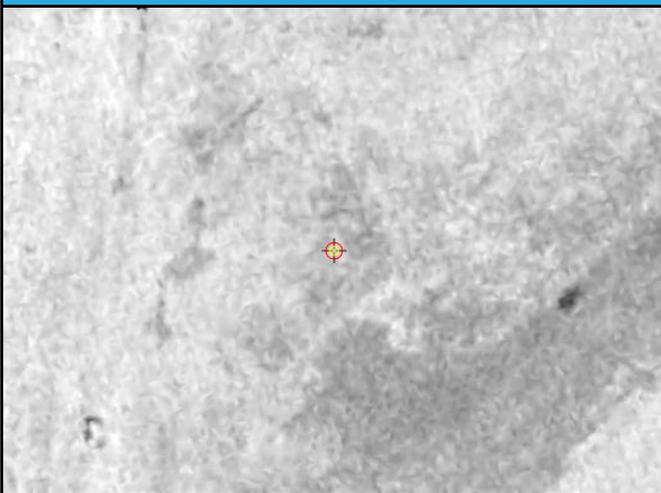
Cross Section - North to South



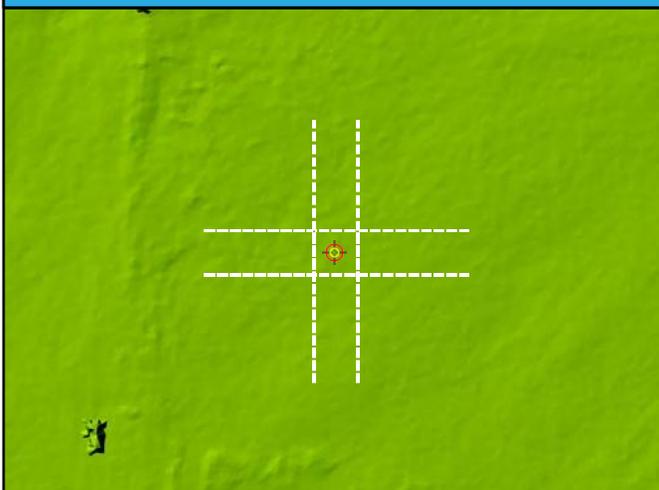
Cross Section - East to West



Intensity



LAS Points TIN



DEM

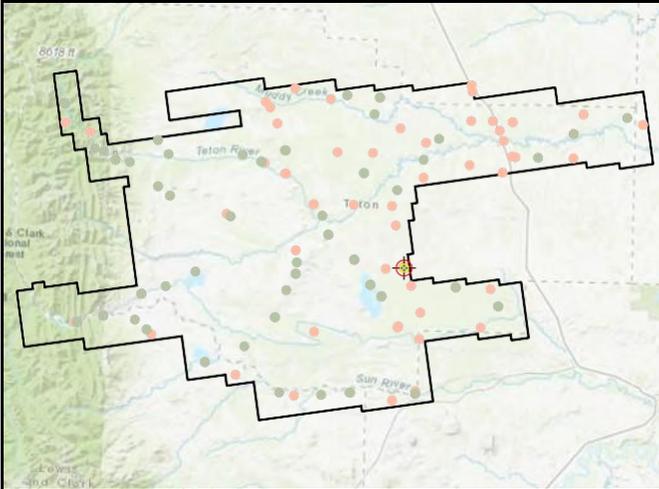


TG031

General	
Name	TG031
Type	VVA
Known Z	1174.52 m
DEM Dz	9.89 cm

Ground (LAS Points)	
Dz	10.68 cm
Density	3.71 ppsm
Nearest	0.10 m
Slope	5.14°

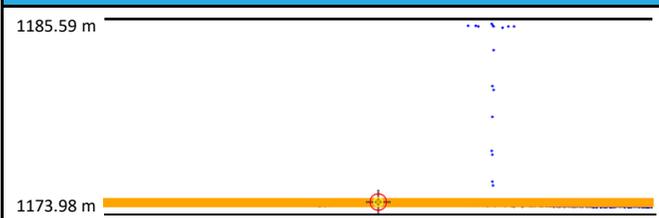
Project Context



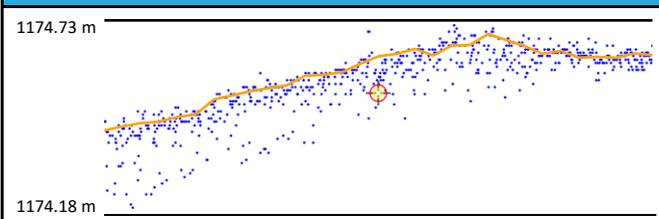
World Imagery



Cross Section - North to South



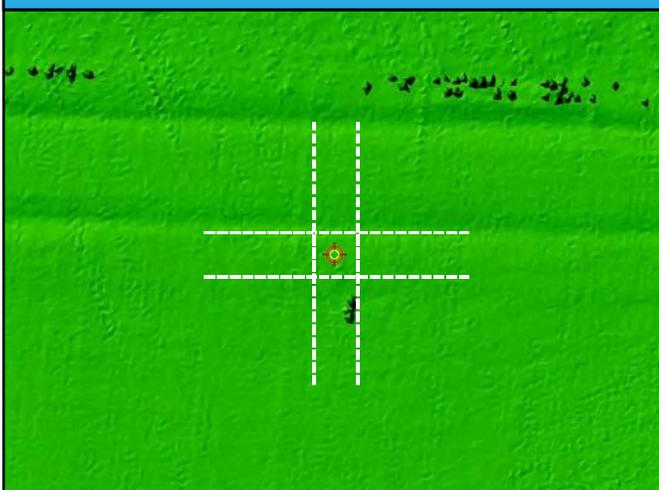
Cross Section - East to West



Intensity



LAS Points TIN



DEM

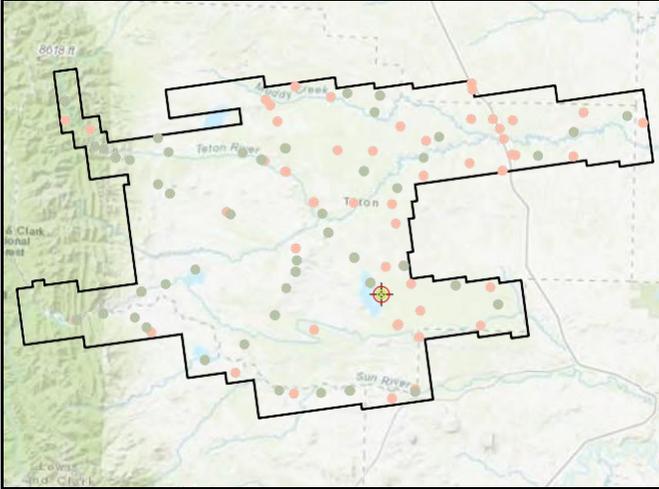


TG032

General	
Name	TG032
Type	VVA
Known Z	1151.94 m
DEM Dz	11.49 cm

Ground (LAS Points)	
Dz	12.93 cm
Density	2.65 ppsm
Nearest	0.18 m
Slope	3.44°

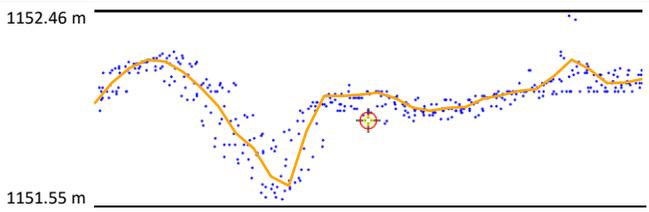
Project Context



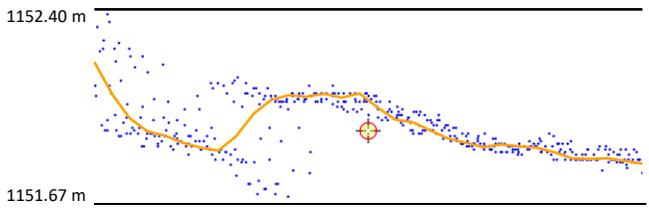
World Imagery



Cross Section - Northwest to Southeast



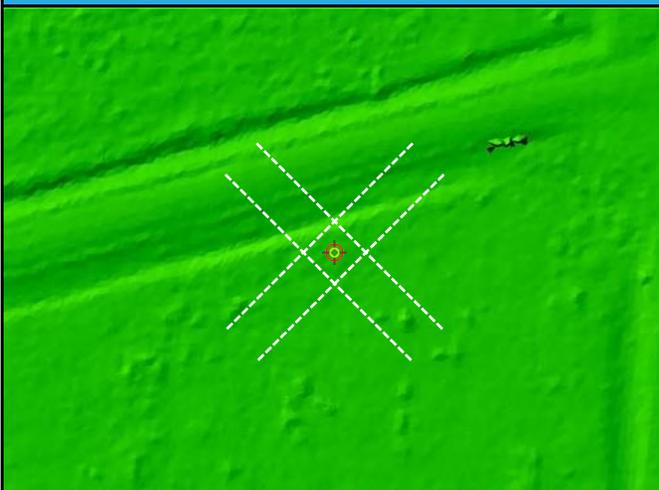
Cross Section - Northeast to Southwest



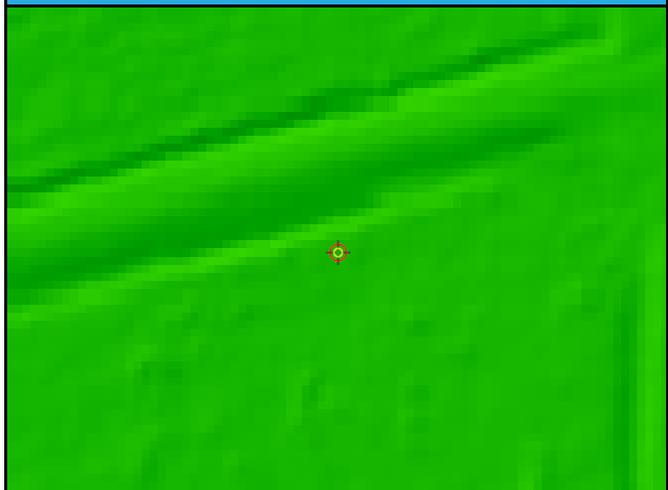
Intensity



LAS Points TIN



DEM

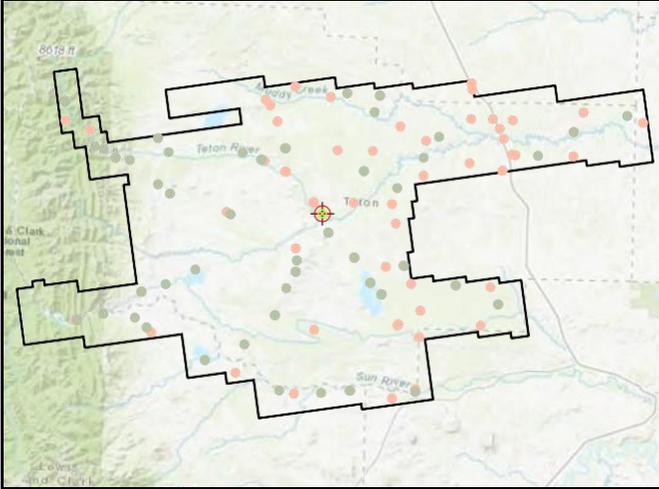


TG033

General	
Name	TG033
Type	VVA
Known Z	1152.92 m
DEM Dz	11.57 cm

Ground (LAS Points)	
Dz	14.62 cm
Density	18.57 ppsm
Nearest	0.33 m
Slope	1.43°

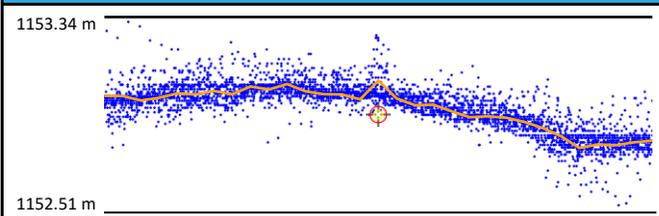
Project Context



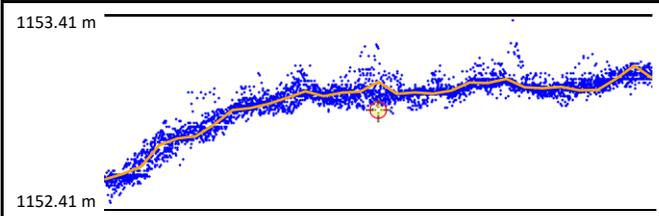
World Imagery



Cross Section - North to South



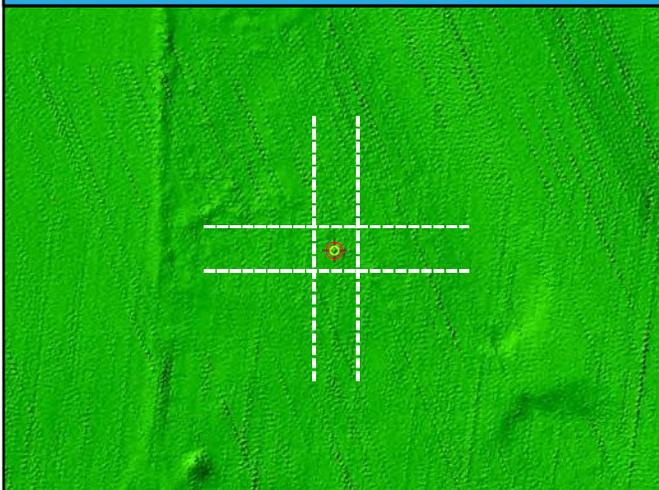
Cross Section - East to West



Intensity



LAS Points TIN



DEM

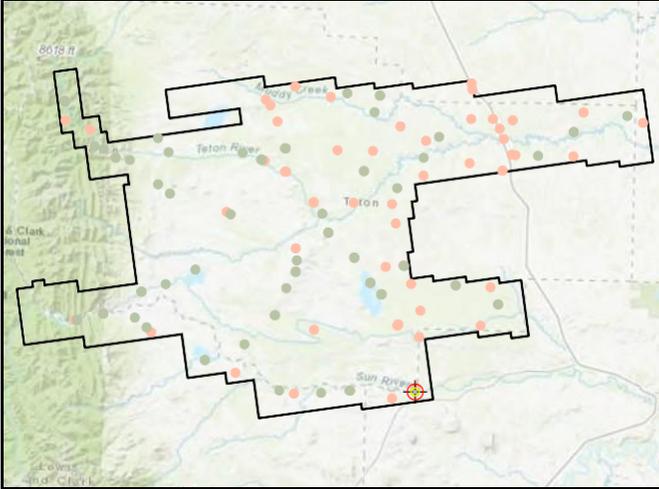


TG034

General	
Name	TG034
Type	VVA
Known Z	1097.25 m
DEM Dz	6.12 cm

Ground (LAS Points)	
Dz	6.74 cm
Density	12.77 ppsm
Nearest	0.01 m
Slope	2.00°

Project Context



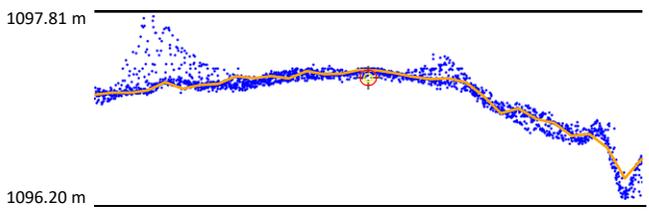
World Imagery



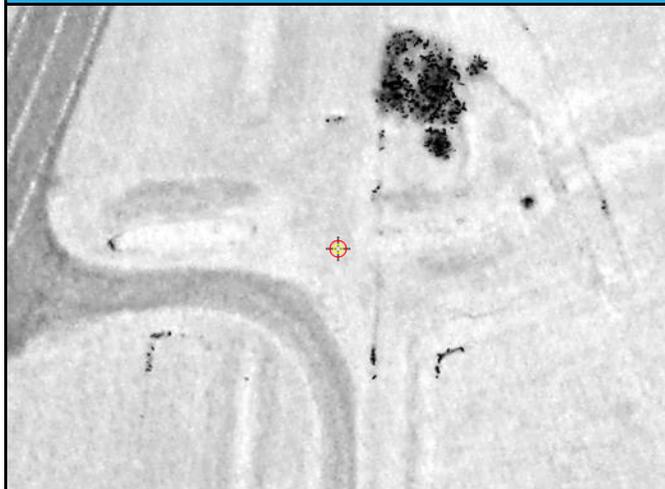
Cross Section - Southwest to Northeast



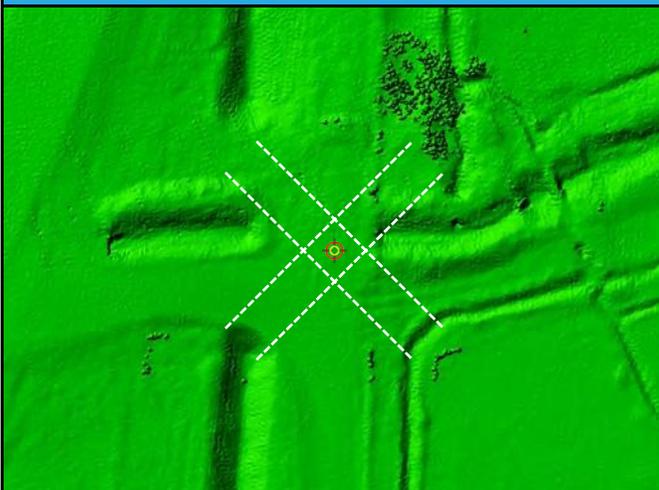
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

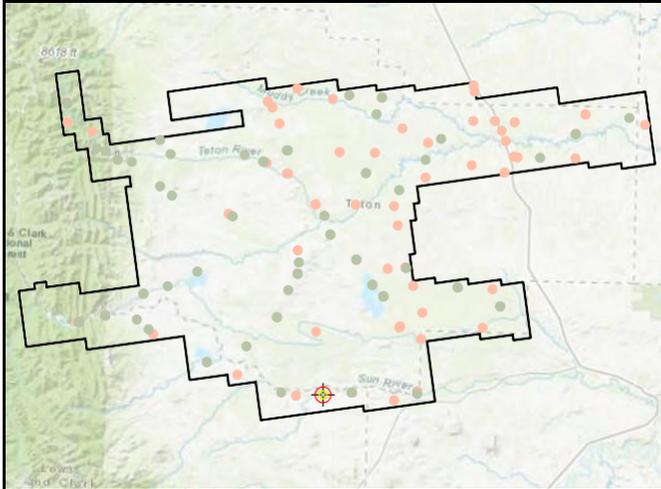


TG035

General	
Name	TG035
Type	VVA
Known Z	1153.14 m
DEM Dz	5.11 cm

Ground (LAS Points)	
Dz	4.86 cm
Density	13.48 ppsm
Nearest	0.14 m
Slope	12.41°

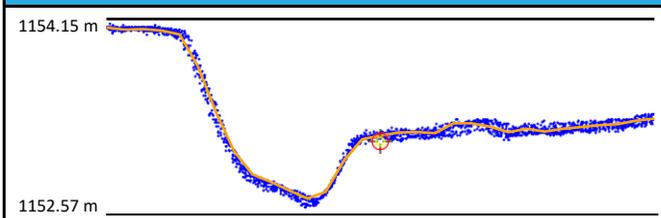
Project Context



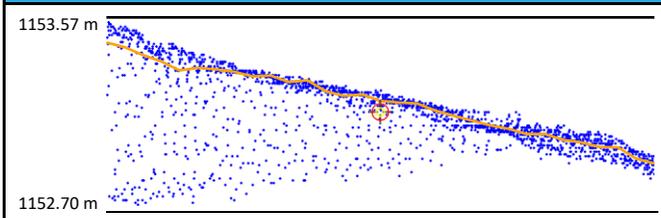
World Imagery



Cross Section - North to South



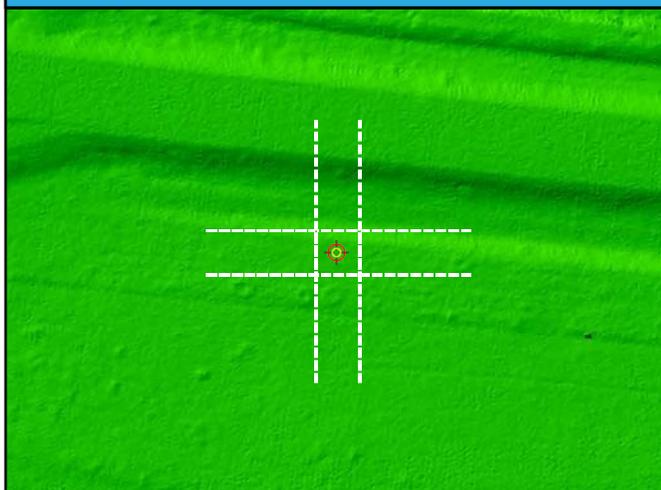
Cross Section - East to West



Intensity



LAS Points TIN



DEM

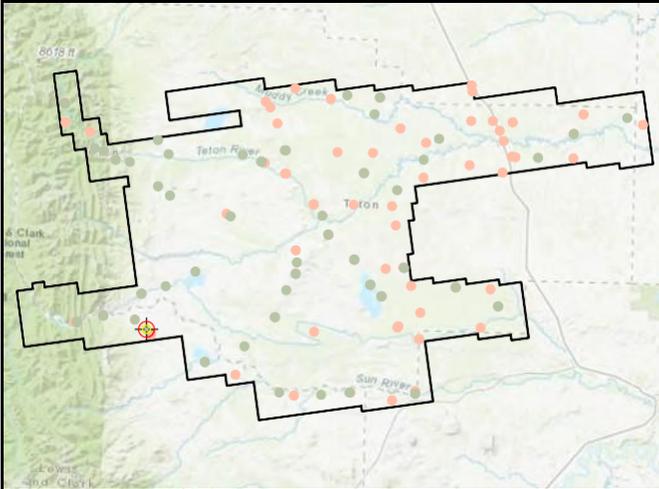


TG036

General	
Name	TG036
Type	VVA
Known Z	1367.91 m
DEM Dz	-3.05 cm

Ground (LAS Points)	
Dz	2.01 cm
Density	19.17 ppsm
Nearest	0.36 m
Slope	1.82°

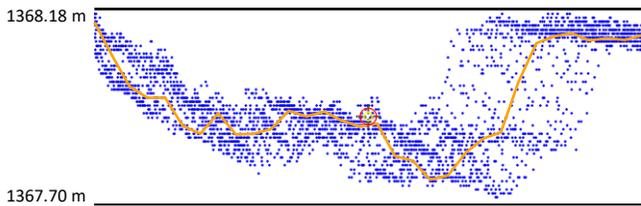
Project Context



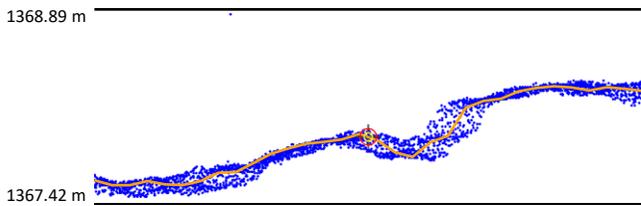
World Imagery



Cross Section - Northwest to Southeast



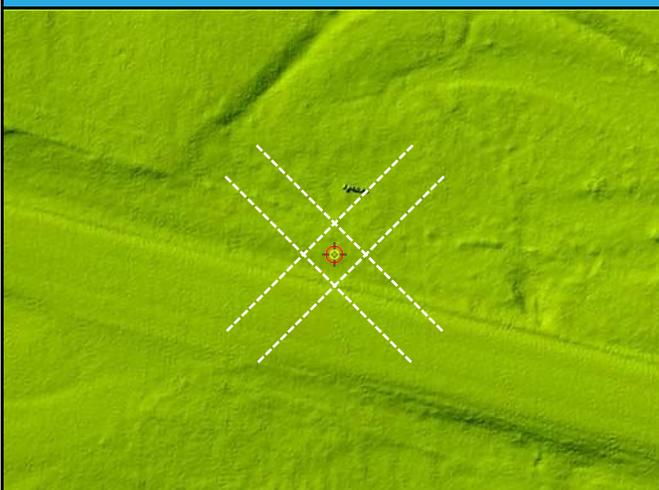
Cross Section - Northeast to Southwest



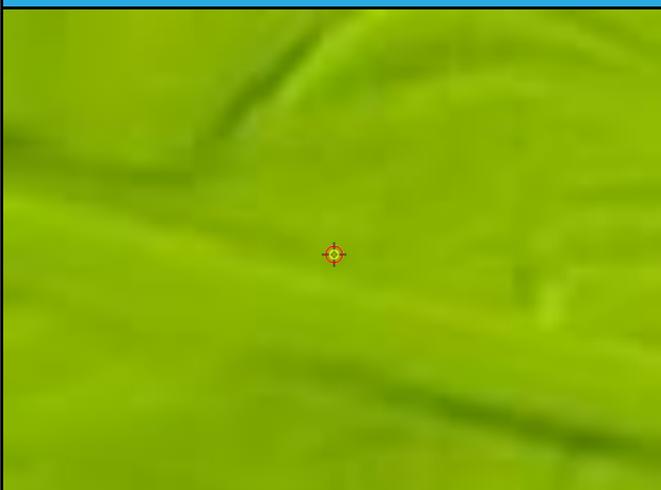
Intensity



LAS Points TIN



DEM

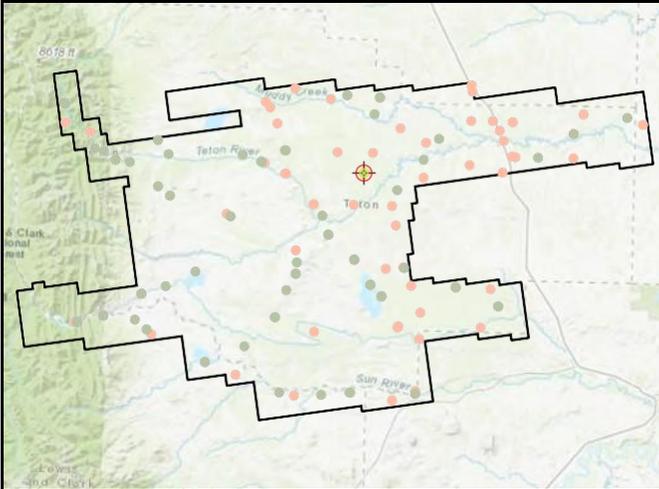


TG037

General	
Name	TG037
Type	VVA
Known Z	1147.89 m
DEM Dz	6.29 cm

Ground (LAS Points)	
Dz	6.39 cm
Density	18.96 ppsm
Nearest	0.03 m
Slope	2.29°

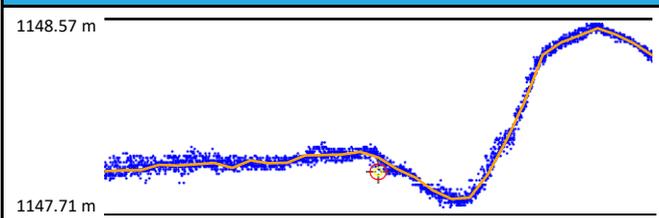
Project Context



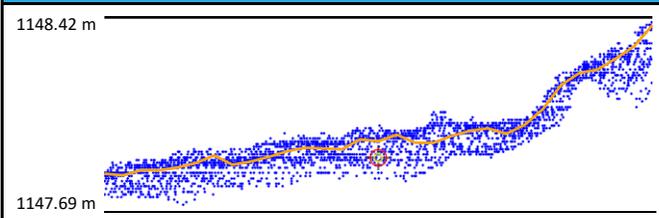
World Imagery



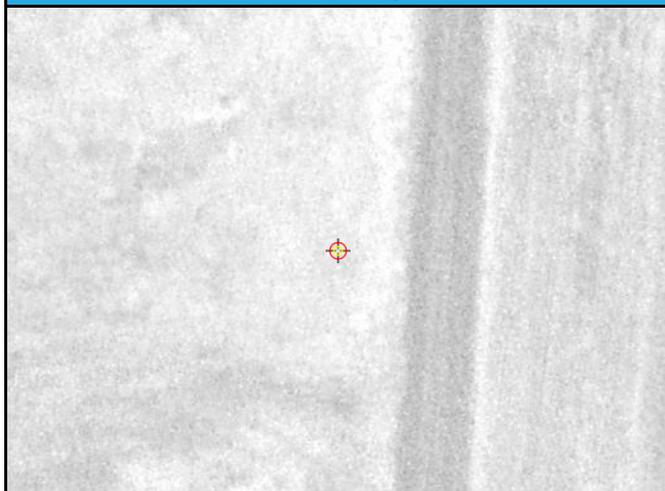
Cross Section - West to East



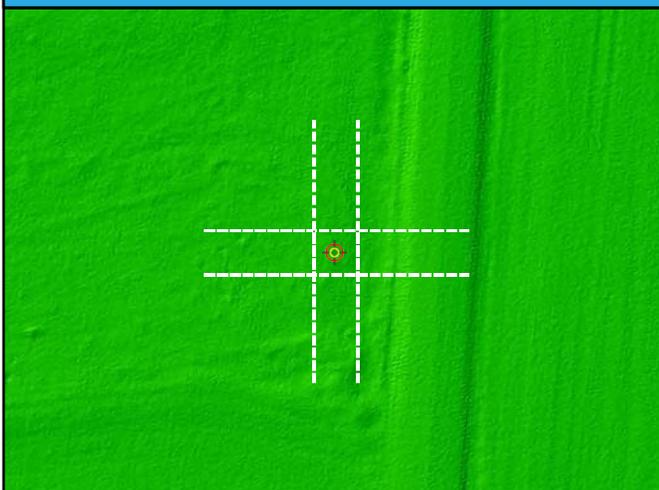
Cross Section - North to South



Intensity



LAS Points TIN



DEM

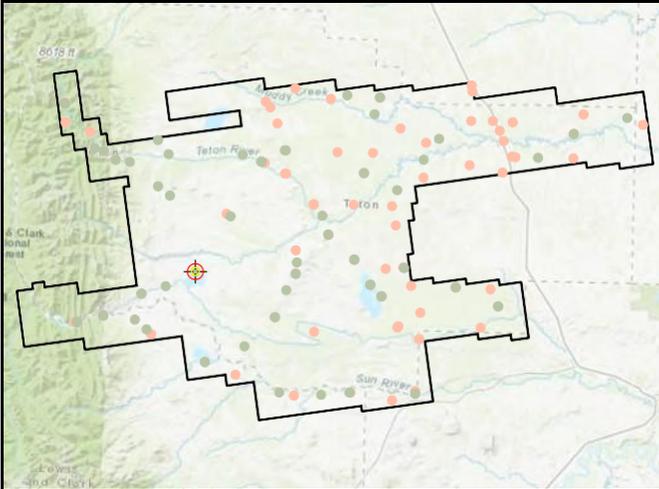


TG038

General	
Name	TG038
Type	VVA
Known Z	1335.47 m
DEM Dz	3.25 cm

Ground (LAS Points)	
Dz	3.18 cm
Density	17.01 ppsm
Nearest	0.12 m
Slope	5.43°

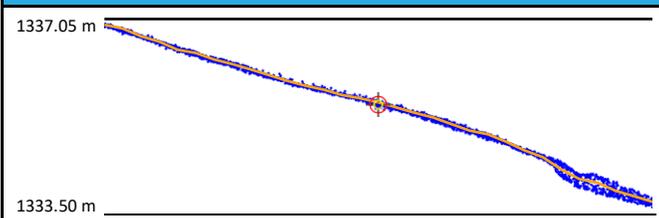
Project Context



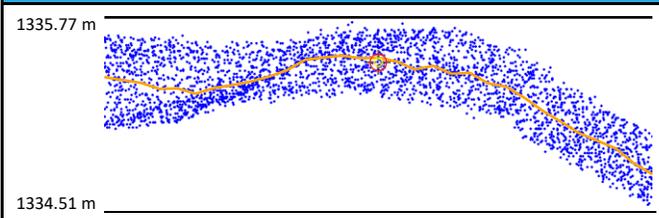
World Imagery



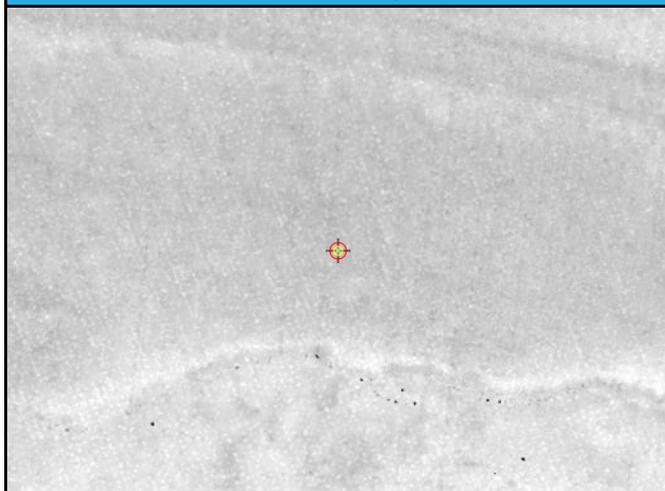
Cross Section - North to South



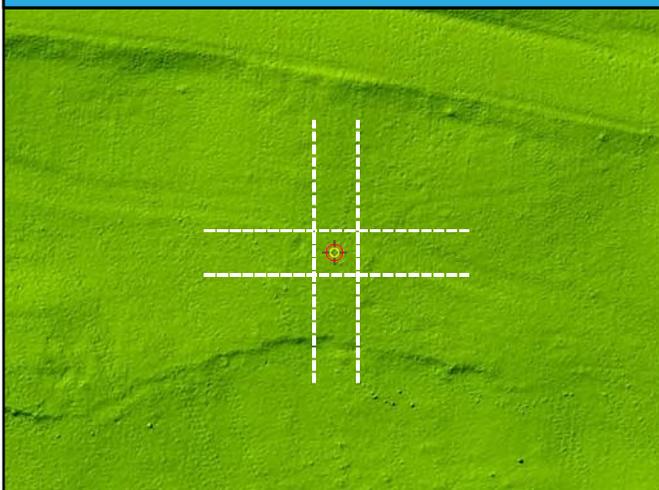
Cross Section - East to West



Intensity



LAS Points TIN



DEM

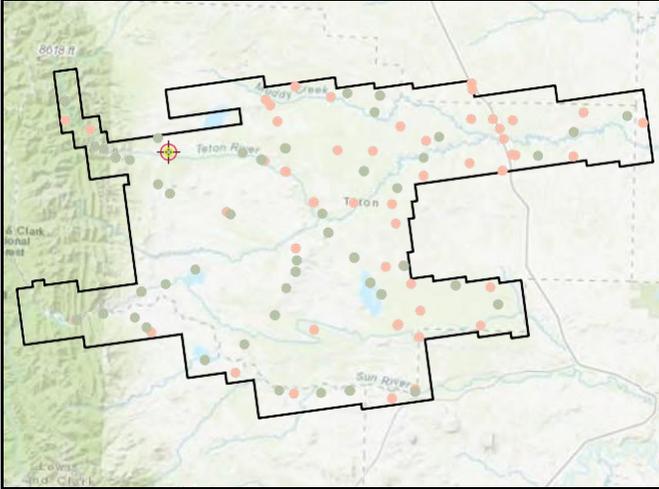


TG039

General	
Name	TG039
Type	VVA
Known Z	1413.63 m
DEM Dz	1.41 cm

Ground (LAS Points)	
Dz	4.48 cm
Density	13.26 ppsm
Nearest	0.04 m
Slope	7.45°

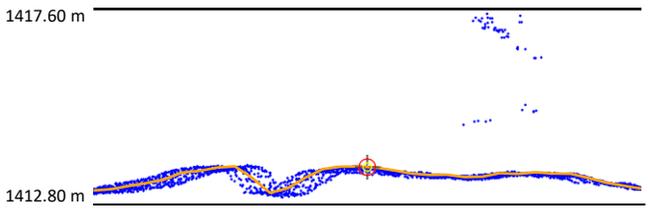
Project Context



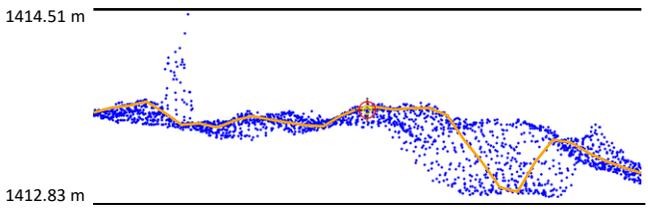
World Imagery



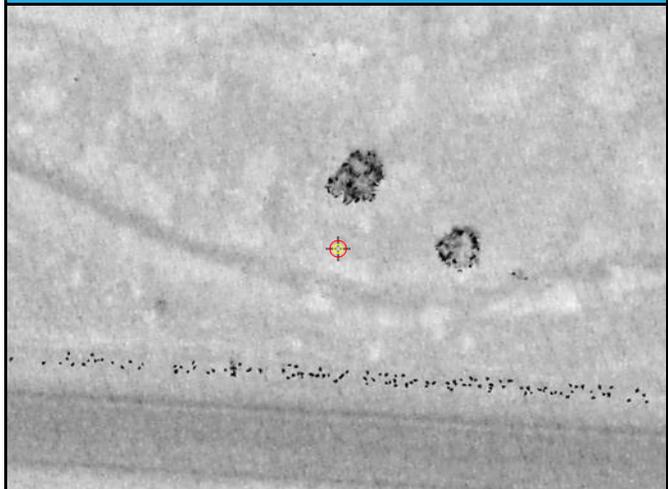
Cross Section - Southwest to Northeast



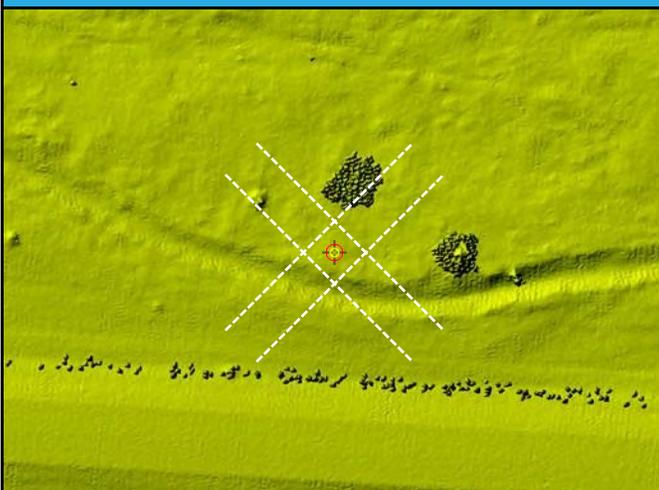
Cross Section - Northwest to Southeast



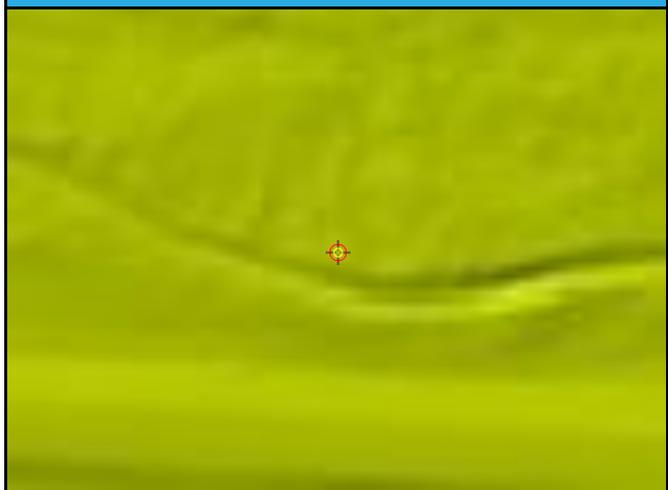
Intensity



LAS Points TIN



DEM

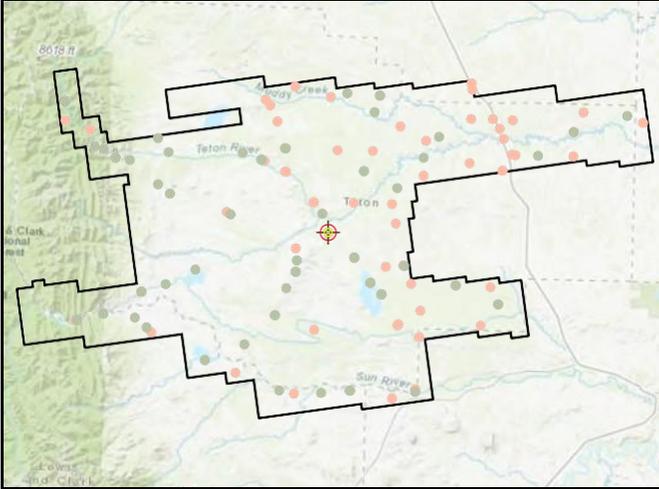


TG040

General	
Name	TG040
Type	VVA
Known Z	1187.90 m
DEM Dz	10.49 cm

Ground (LAS Points)	
Dz	11.50 cm
Density	17.93 ppsm
Nearest	0.11 m
Slope	5.99°

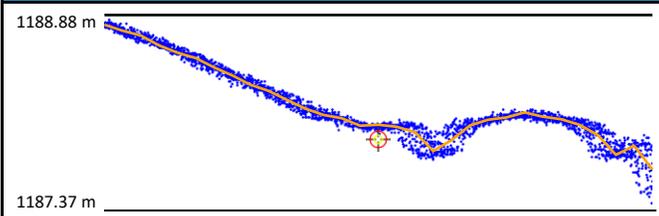
Project Context



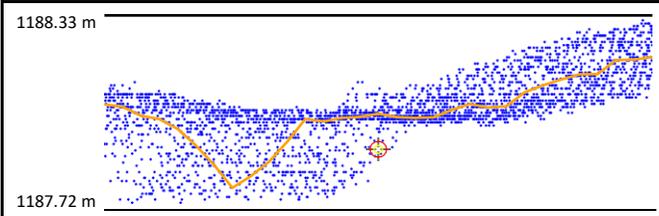
World Imagery



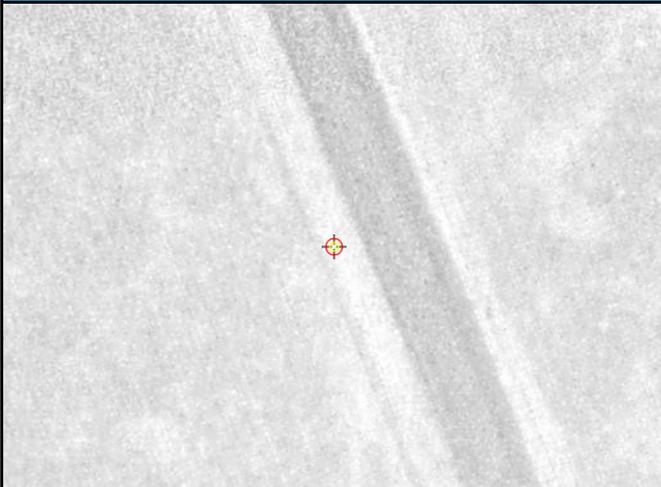
Cross Section - West to East



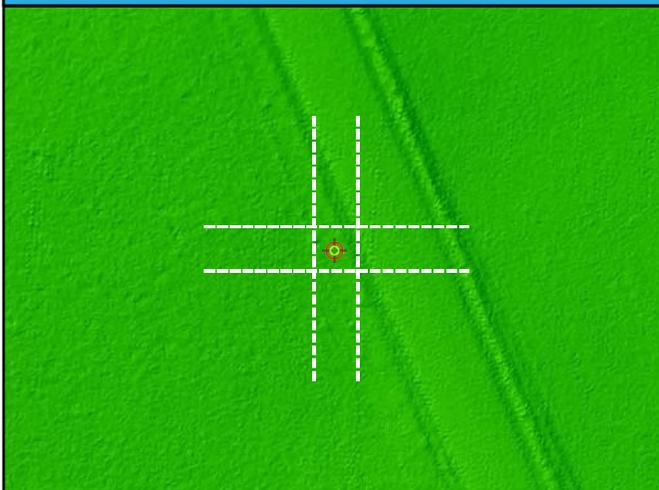
Cross Section - North to South



Intensity



LAS Points TIN



DEM

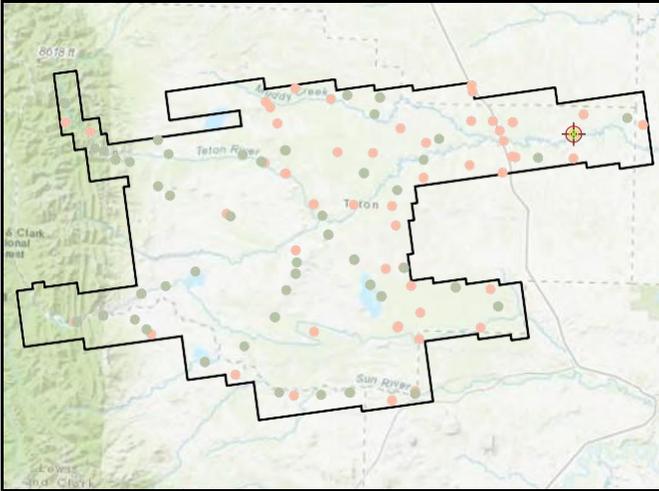


TG041

General	
Name	TG041
Type	VVA
Known Z	1020.74 m
DEM Dz	10.19 cm

Ground (LAS Points)	
Dz	12.94 cm
Density	14.04 ppsm
Nearest	0.15 m
Slope	0.29°

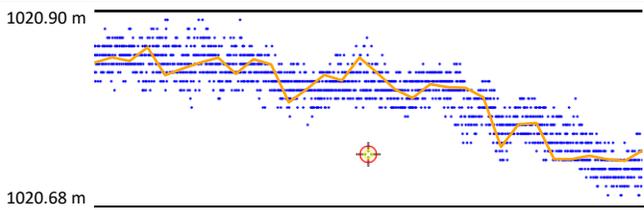
Project Context



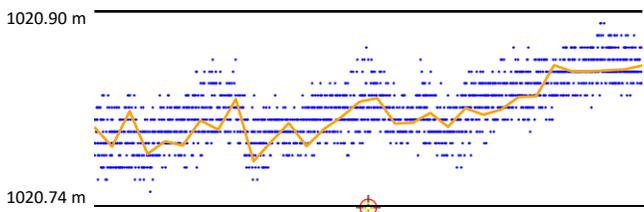
World Imagery



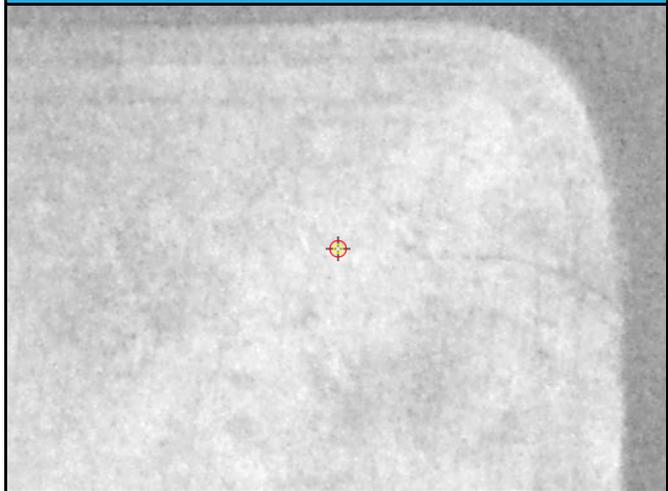
Cross Section - Southwest to Northeast



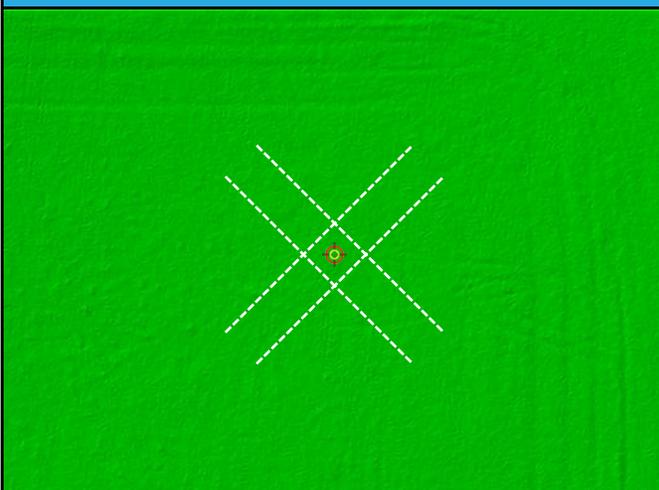
Cross Section - Northwest to Southeast



Intensity



LAS Points TIN



DEM

